L-force

Geared motors MF

Compact, efficient, dynamic

NEW

Optimised for
inverter operation

Lenze

This is what we stand for.
You want to implement your machine and plant concepts efficiently and easily or optimise existing concepts to reduce costs? Then, Lenze is the partner you are looking for. For more than 60 years, drive and automation systems have been our core competence.

Drive and automation technology from Lenze keep things moving – for example in the areas of materials handling, robotics and component handling as well as in packaging facilities for the intralogistics and automotive sectors and the food and beverage industries.

Lenze | about us

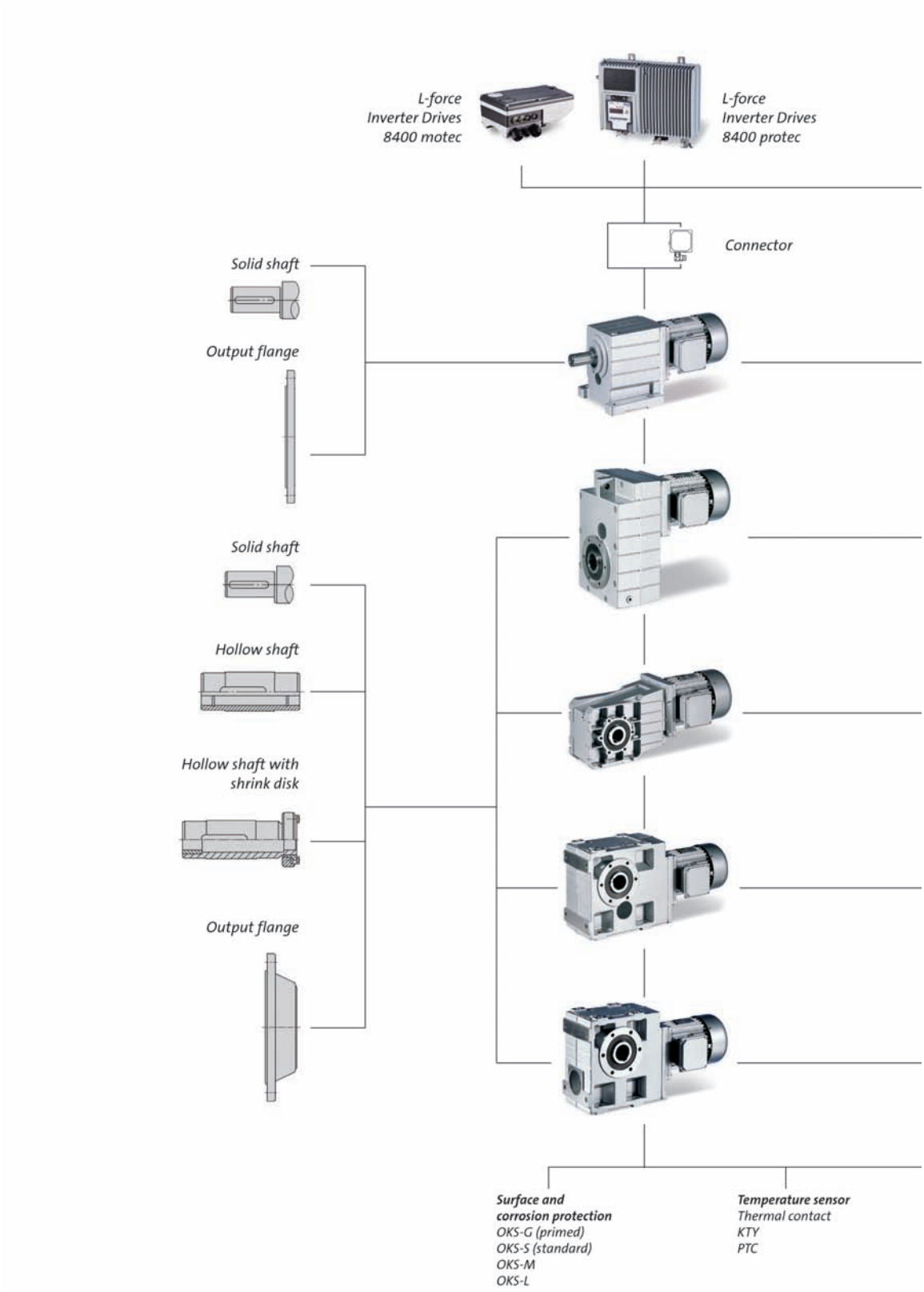
We can offer you automation solutions including control, visualisation and drive technology from a single source. Our drive systems will improve the performance of your machines. From project planning to commissioning, we have the know-how, whilst our international sales and service network can provide you with expert help and advice at any time.

Cut your process costs and increase your ability to compete. Let us analyse your drive technology tasks and support you with made-to-measure solutions. We can take an integrated approach to projects thanks to the scalability of our products and the scope of the overall portfolio. We can get the best from your machines and systems.

At your side all over the world – with thorough and professional support from our motivated team.

System overview

Geared motors MF



L-force
Inverter Drives 8400

Helical geared motors GST
0.55 to 22 kW
Parallel-axial solid shaft gearedmotors in foot and flange mounting.

Shaft-mounted helical geared motors GFL
0.55 to 22 kW
Particularly compact with hollow shaft, can be used as shaft-mounted gearbox.

Bevel geared motors GKR
0.55 to 7.5 kW
Highly efficient right-angle geared motors with wear-free bevel gear toothing.

GKS helical-bevel geared motors
0.55 to 22 kW
Solid shaft or hollow shaft right-angle geared motor with comparably high level of efficiency.

GSS helical-worm geared motors
0.55 to 15 kW
Comparably inexpensive right-angle geared motors with high power density.

Spring applied brake

Integral fan

Blower

Speed/ position encoder

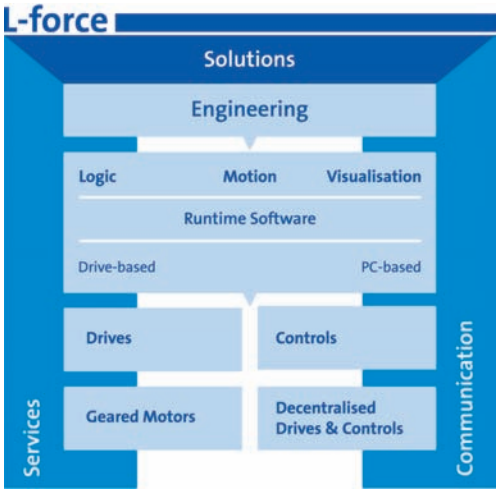
Integral fan

Blower

Approvals
CE
cULus
GOST
UkrSepro

L-force | Your future is our drive

Demands are increasing all the time. In future, key challenges will lie in the areas of cost efficiency, time-saving and quality improvements. Faster project planning and commissioning, improved performance and increased flexibility in production are expected. New ideas are therefore needed for the machines of the future.
Lenze has risen to this challenge and, with L-force, we can now not only offer you an innovative family of drive and automation products, but also a new, comprehensive portfolio of solutions.



Driven by innovation – new ideas that open up new opportunities
Always on the lookout. Our idea of innovation is striving for better solutions for our customers every single day.

Driven by flexibility – High degree of scalability for individual solutions
Scalability is an important aspect of the **L-force** philosophy. Performance, scope of functions, software, service provisions and aftersales care – Lenze will provide you with exactly the combination you require.

Driven by usability – Simple solutions, even for complex applications
We always focus on the user. Therefore, when we developed **L-force**, we made sure that people with sufficient practical experience were involved, right from the start.

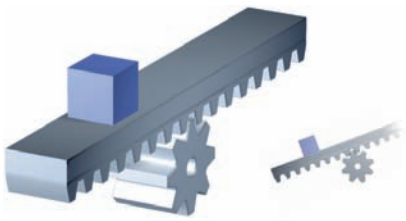
Driven by compatibility – Universal products and solutions
There is no need to waste time looking for suitable components and the right interfaces. With **L-force**, every element is perfectly matched.

Our drive is "rightsized" – the perfect solution for your application
We call it Rightsizing: Optimise your processes with Lenze geared motors and increase your added value.

Overview | Geared motors MF

Contents | Geared motors MF

General information

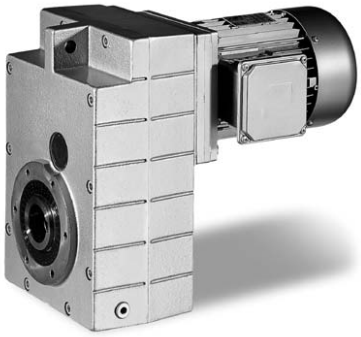


Drive dimensioning

Contents | Geared motors MF

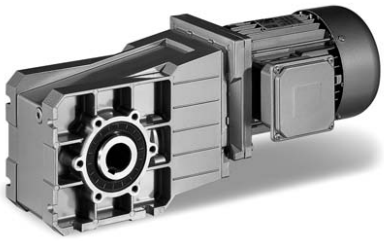
GST Helical geared motor

Contents | Geared motors MF



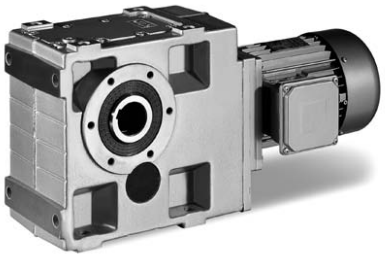
GFL Shaft-mounted helical geared motors

Contents | Geared motors MF



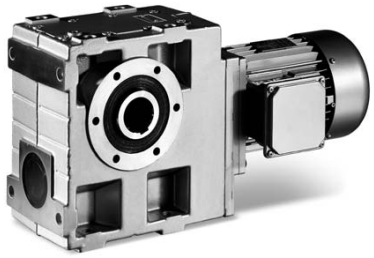
Bevel geared motor GKR

Contents | Geared motors MF



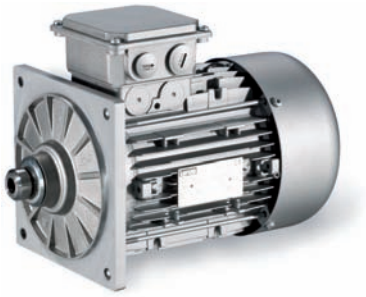
GKS Helical-bevel geared motor

Contents | Geared motors MF



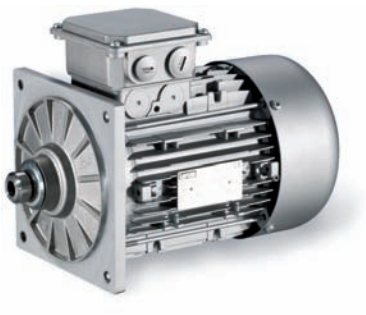
GSS Helical-worm geared motors

Contents | Geared motors MF



Three-phase AC motors

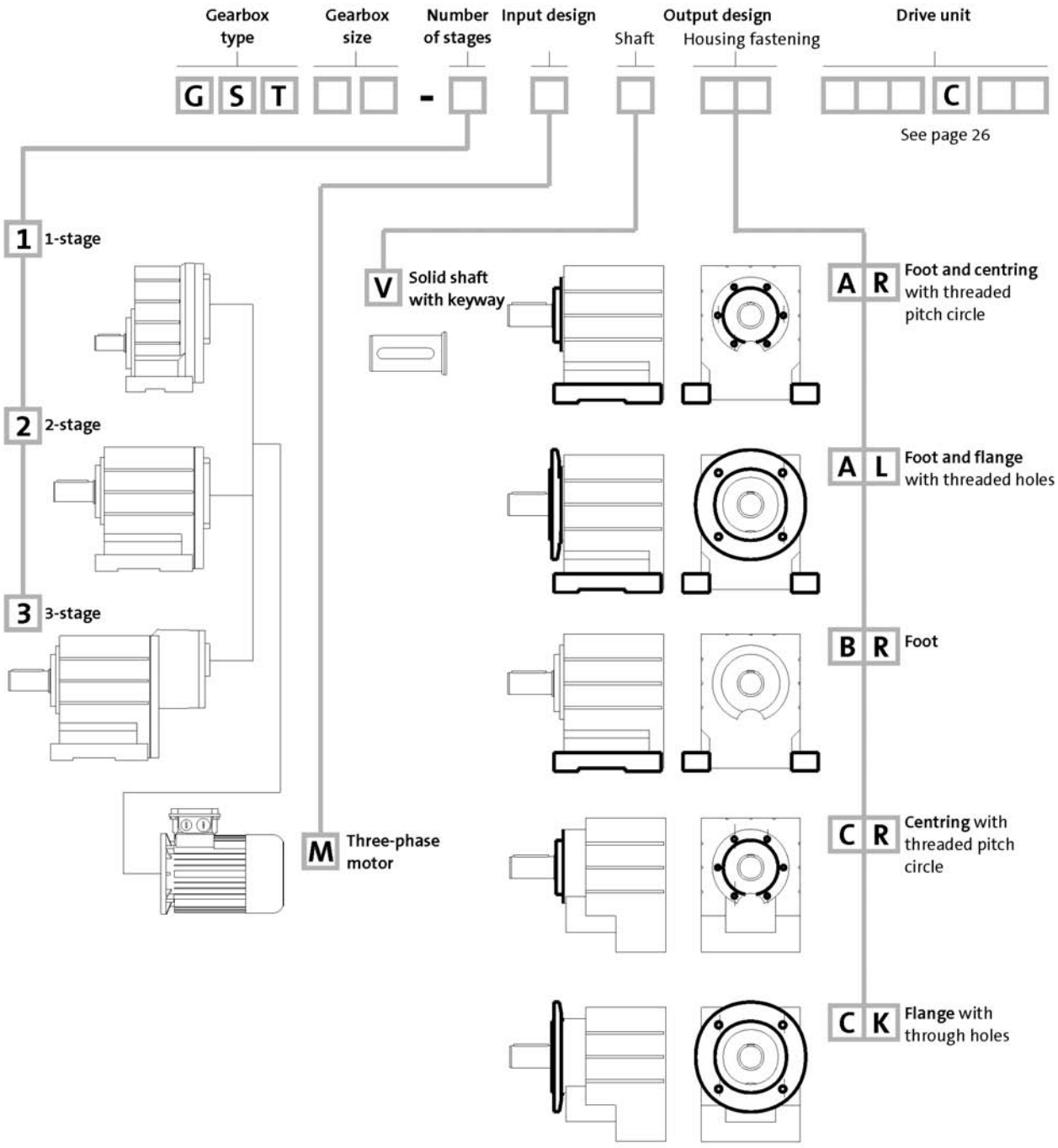
Contents | Geared motors MF



Three-phase AC motors

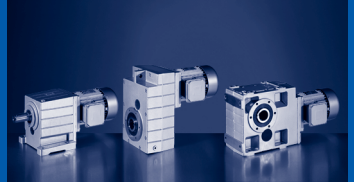
1

Helical geared motors

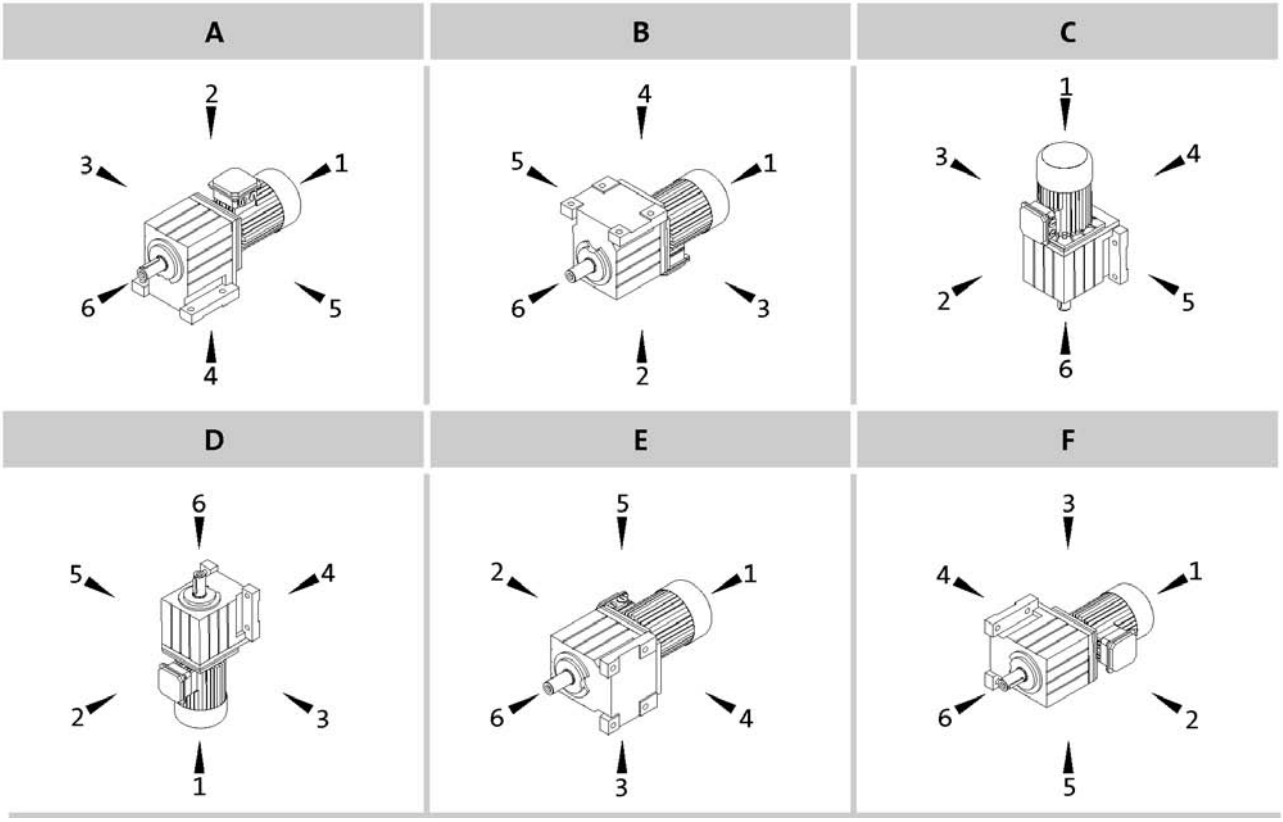


	Output design		
	V	K	L
	d x l [mm]	Øa2 [mm]	Øa2 [mm]
GST03-2	14x28	120/140/160	
	20x40	120/140/160	
GST04-1	16x32	120/140/160	
GST04-2	20x40	120/140/160	120/140
GST05-1	20x40	120/140/160/200	
GST05-2/3	25x50	120/140/160/200	120/140/160
GST06-1	25x50	160/200	

	Output design		
	V	K	L
	d x l [mm]	Øa2 [mm]	Øa2 [mm]
GST06-2/3	30x60	160/200	160/200
GST07-1	30x60	200/250	
GST07-2/3	40x80	200/250	200/250
GST09-1	40x80	250/300	
GST09-2/3	50x100	250/300	250/300
GST11-2/3	60x120	300/350	300/350
GST14-2/3	80x160	350/400	350/400



Mounting position (A...F) and position of system blocks (1...6)



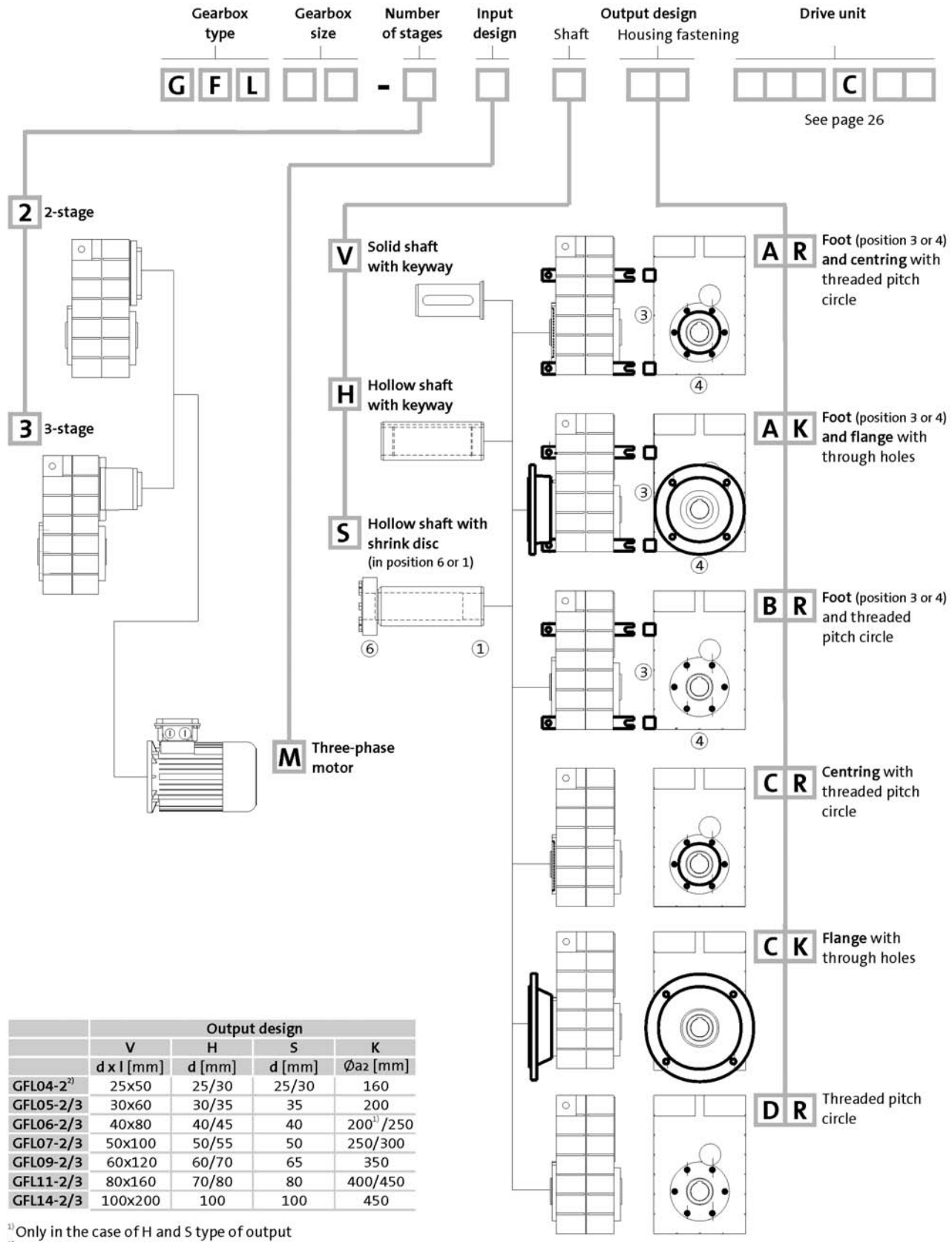
Terminal box: 2, 3, 4, 5

Gearbox designs

Basic versions	
Motor efficiency	Increased efficiency (comparable with efficiency class IE2)
Surface and corrosion protection	No OKS (unpainted, aluminium housing) for GST03 OKS-G (primer: grey) OKS-S (paint: RAL 7012)
Lubricant	CLP 460 (mineral)
Ventilation	Oil control plugs for GST05 ... 14 Breather elements for GST06 ... 14

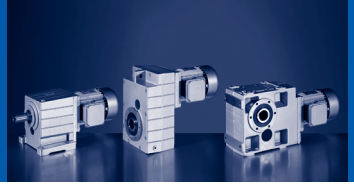
Options	
Surface and corrosion protection	OKS-G (primer: grey) for GST03-2 OKS-S (special paint according to RAL) OKS-M (special paint according to RAL) OKS-L (special paint according to RAL)
Lubricant	CLP HC 320 (synthetic) CLP HC 220 USDA H1 (synthetic)
Shaft sealing rings	Driven shaft: Viton
Bearings	Driven shaft: reinforced for GST04 ... 09-2/3
Ventilation	Breather elements for GST05 Compensation reservoir for GST09 ... 14-2 in mounting position C
Nameplate	Metal nameplate (supplied loose) Adhesive nameplate (supplied loose)

Shaft-mounted helical geared motors

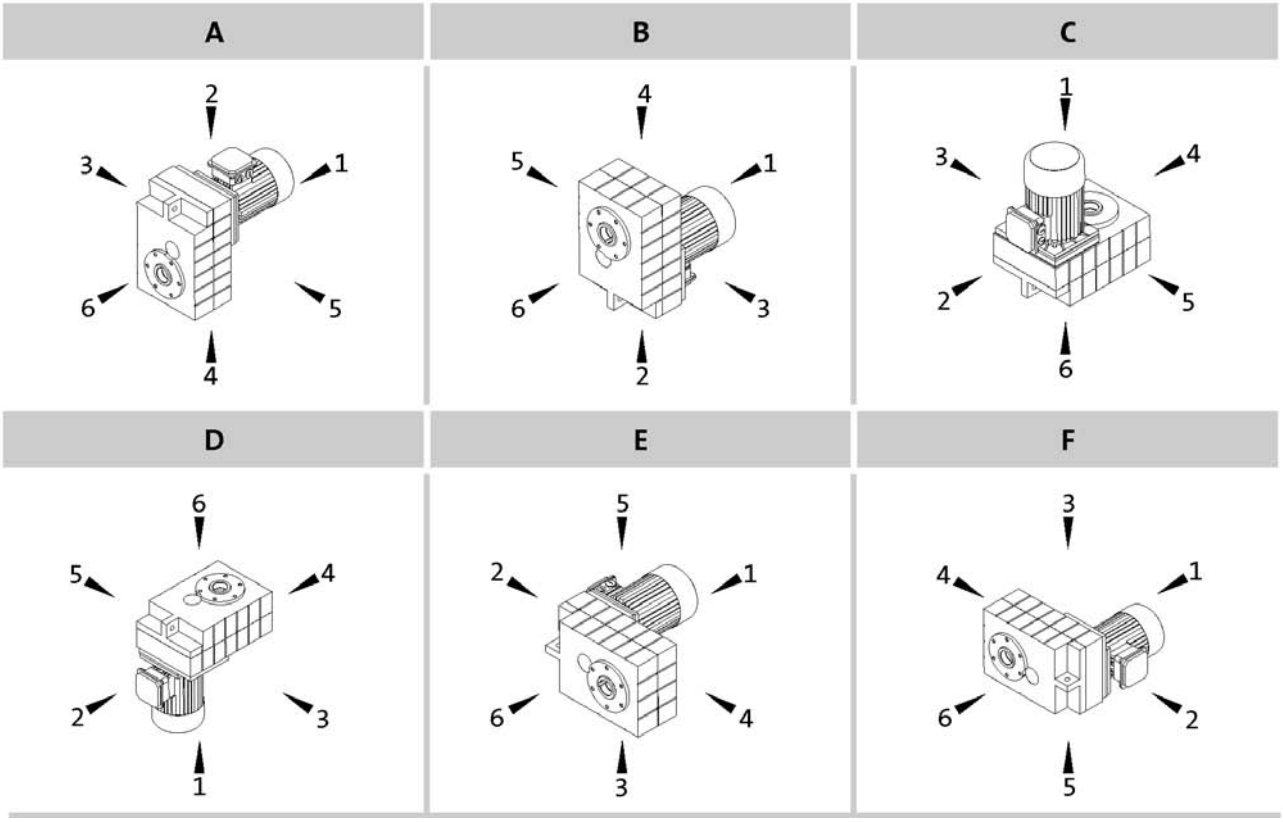


	Output design			
	V	H	S	K
	d x l [mm]	d [mm]	d [mm]	Øa2 [mm]
GFL04-2[2]	25x50	25/30	25/30	160
GFL05-2/3	30x60	30/35	35	200
GFL06-2/3	40x80	40/45	40	200[1]/250
GFL07-2/3	50x100	50/55	50	250/300
GFL09-2/3	60x120	60/70	65	350
GFL11-2/3	80x160	70/80	80	400/450
GFL14-2/3	100x200	100	100	450

[1] Only in the case of H and S type of output
[2] Output H version not possible with motor size 090



Mounting position (A...F) and position of system blocks (1...6)



Hollow shaft: 0
Solid shaft: 6
Hollow shaft with shrink disc: 1, 6

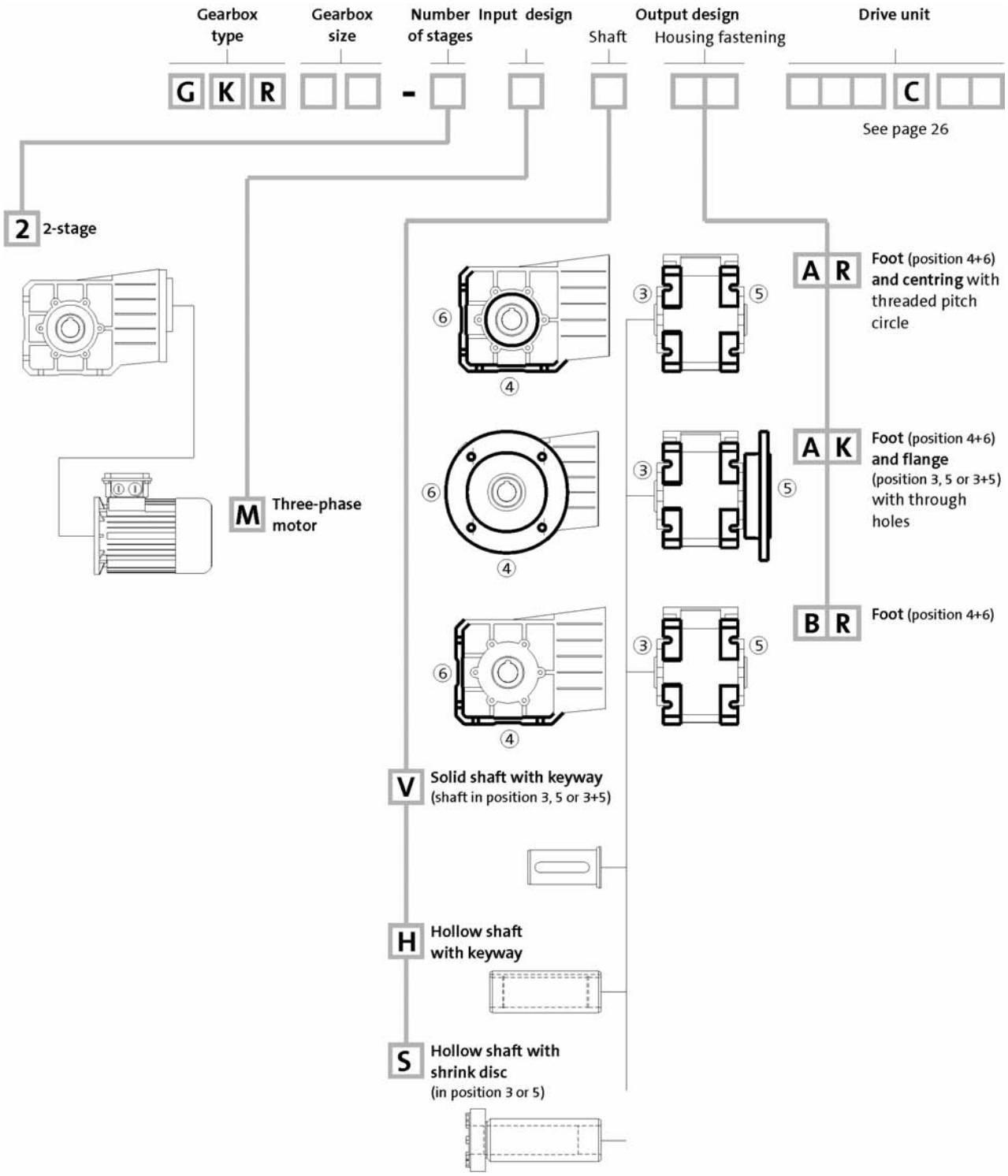
Without foot: 0
Foot: 3, 4
Terminal box: 2, 3, 4, 5

Gearbox designs

Basic versions	
Motor efficiency	Increased efficiency (comparable with efficiency class IE2)
Surface and corrosion protection	OKS-G (primer: grey) OKS-S (paint: RAL 7012)
Lubricant	CLP 460 (mineral)
Ventilation	Oil control plugs for GFL05 ... 14 Breather elements for GFL06 ... 14

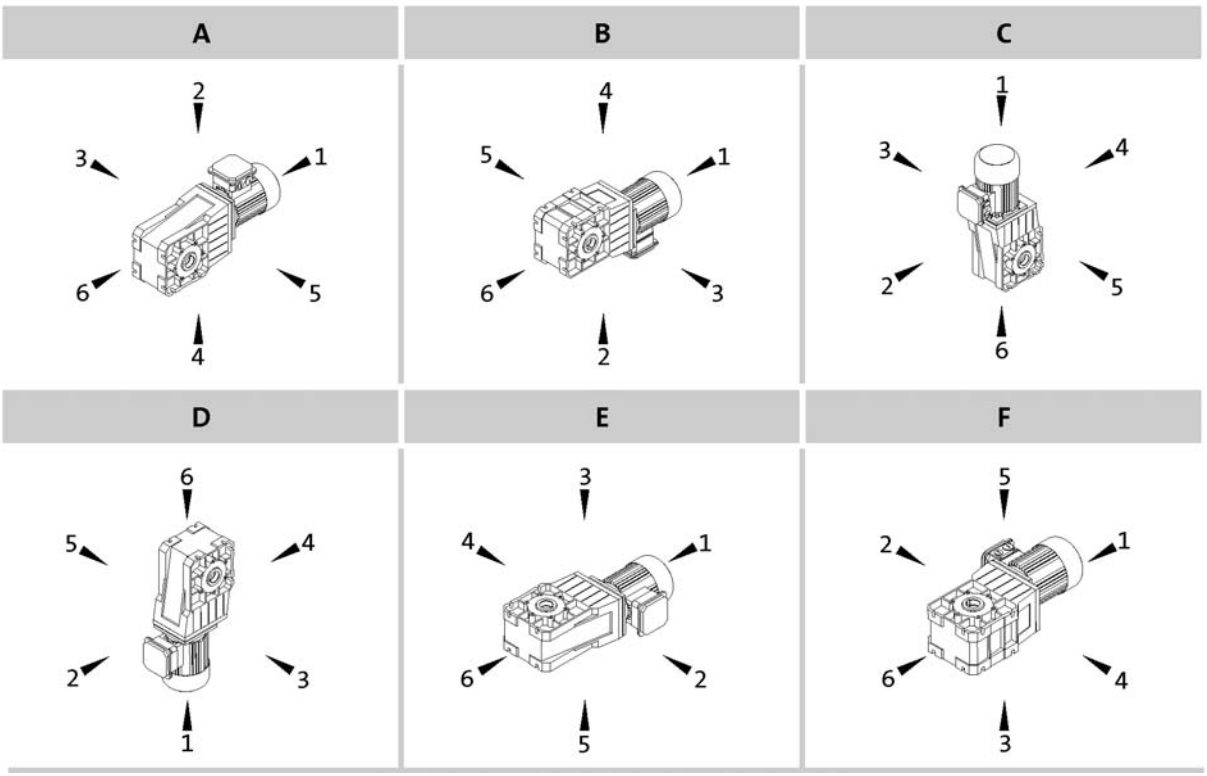
Options	
Surface and corrosion protection	OKS-S (special paint according to RAL) OKS-M (special paint according to RAL) OKS-L (special paint according to RAL)
Lubricant	CLP HC 320 (synthetic) CLP HC 220 USDA H1 (synthetic)
Shaft sealing rings	Driven shaft: Viton
Ventilation	Breather elements for GFL05 Compensation reservoir for GFL09 ... 14-2 in mounting position C
Accessories	Rubber buffer for torque plate Shrink disc cover Mounting set for hollow shaft circlip
Nameplate	Metal nameplate (supplied loose) Adhesive nameplate (supplied loose)

Bevel geared motors



	Output design			
	V	H	S	K
	d x l [mm]	d [mm]	d [mm]	Øa2 [mm]
GKR03-2	20x40	18/20	20	110/120
GKR04-2	20x40	20/25	20	120/160
GKR05-2	30x60	30/35	30/35	160/200
GKR06-2	35x70	40/45	40	200/250

Mounting position (A...F) and position of system blocks (1...6)



Hollow shaft: 0
Solid shaft: 3, 5, 8 (3+5)
Hollow shaft with shrink disc: 3, 5

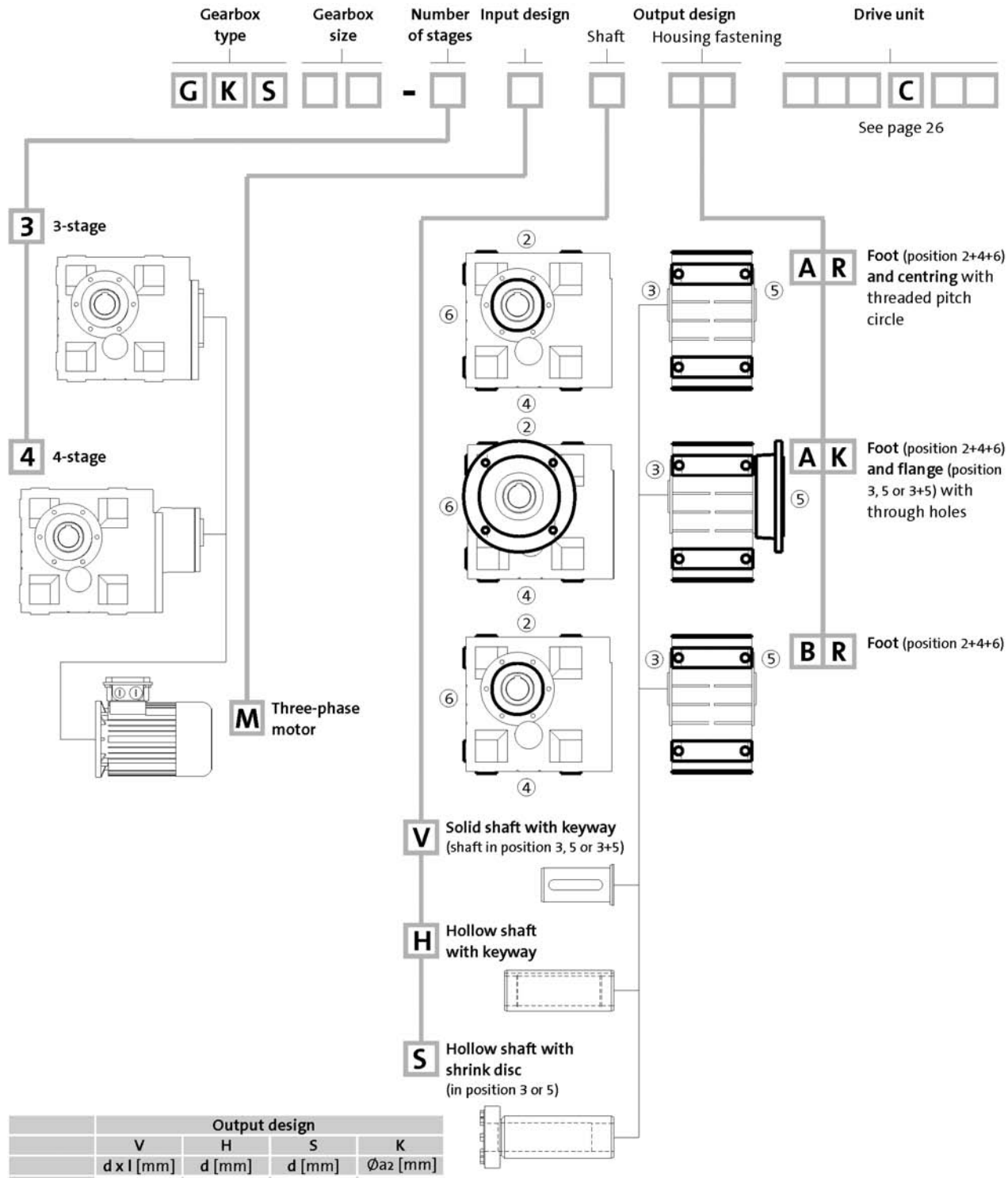
Without flange: 0
Flange: 3, 5, 8 (3+5)
Terminal box: 2, 3, 4, 5

Gearbox designs

Basic versions	
Motor efficiency	Increased efficiency (comparable with efficiency class IE2)
Surface and corrosion protection	No OKS (unpainted, aluminium housing) OKS-S (paint: RAL 7012)
Lubricant	CLP 460 (mineral)
Ventilation	Breather elements for GKR06

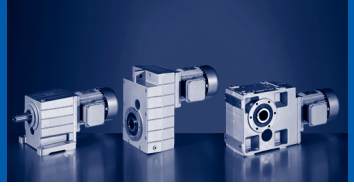
Options	
Surface and corrosion protection	OKS-G (primer: grey) OKS-S (special paint according to RAL) OKS-M (special paint according to RAL) OKS-L (special paint according to RAL)
Lubricant	CLP HC 320 (synthetic) CLP HC 220 USDA H1 (synthetic)
Shaft sealing rings	Driven shaft: Viton
Accessories	Rubber buffer for torque plate (GKR 03/04 only) Torque plate on threaded pitch circle Housing foot torque plate (GKR05/06 only) 2nd output shaft end Shrink disc cover Hoseproof hollow shaft cover Mounting set for hollow shaft circlip
Nameplate	Metal nameplate (supplied loose) Adhesive nameplate (supplied loose)

Helical-bevel geared motors

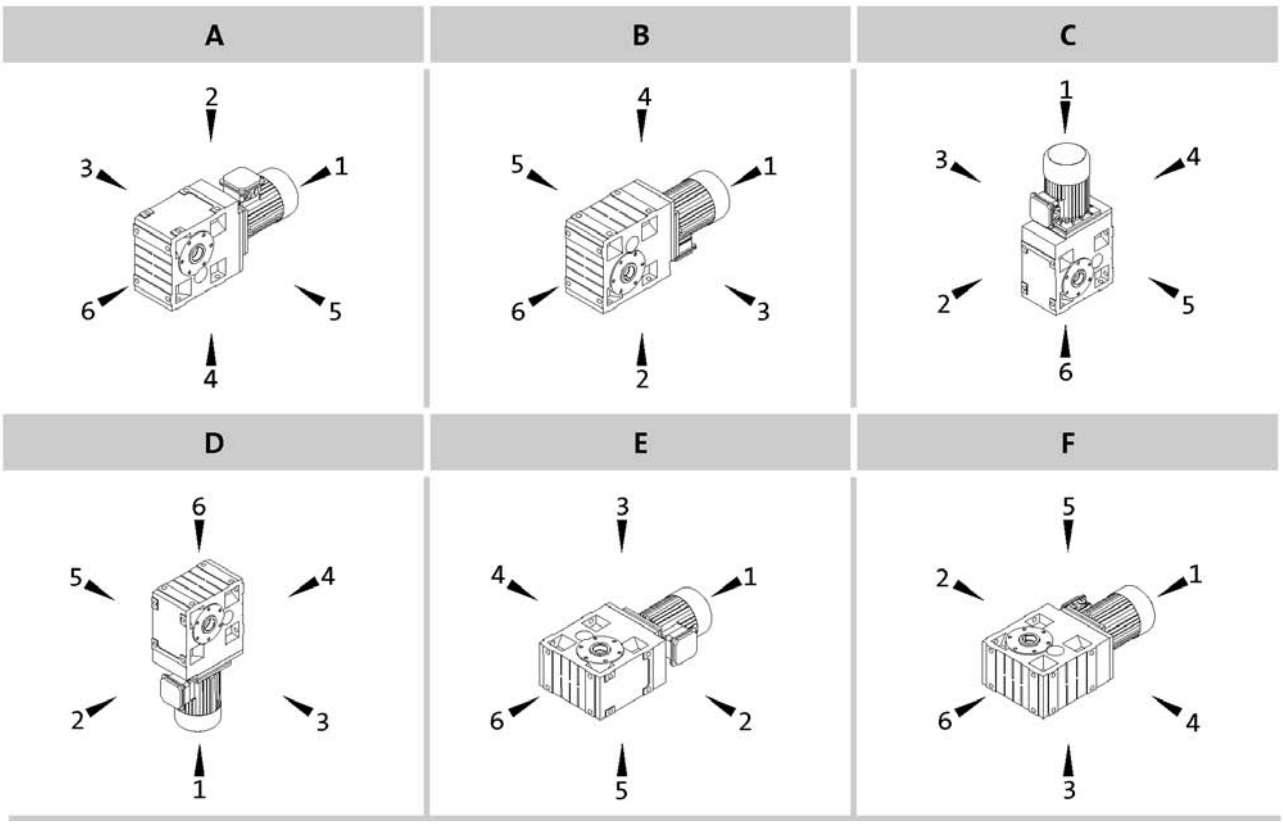


	Output design			
	V	H	S	K
	d x l [mm]	d [mm]	d [mm]	Øa2 [mm]
GKS04-3	25x50	25/30	25/30	160
GKS05-3/4	30x60	30/35	35	200
GKS06-3/4	40x80	40/45	40	200[1]/250
GKS07-3/4	50x100	50/55	50	250/300
GKS09-3/4	60x120	60/70	65	350
GKS11-3/4	80x160	70/80	80	400/450
GKS14-3/4	100x200	100	100	450

[1] Only in the case of H and S type of output



Mounting position (A...F) and position of system blocks (1...6)



Hollow shaft: 0
Solid shaft: 3, 5, 8 (3+5)
Hollow shaft with shrink disc: 3, 5

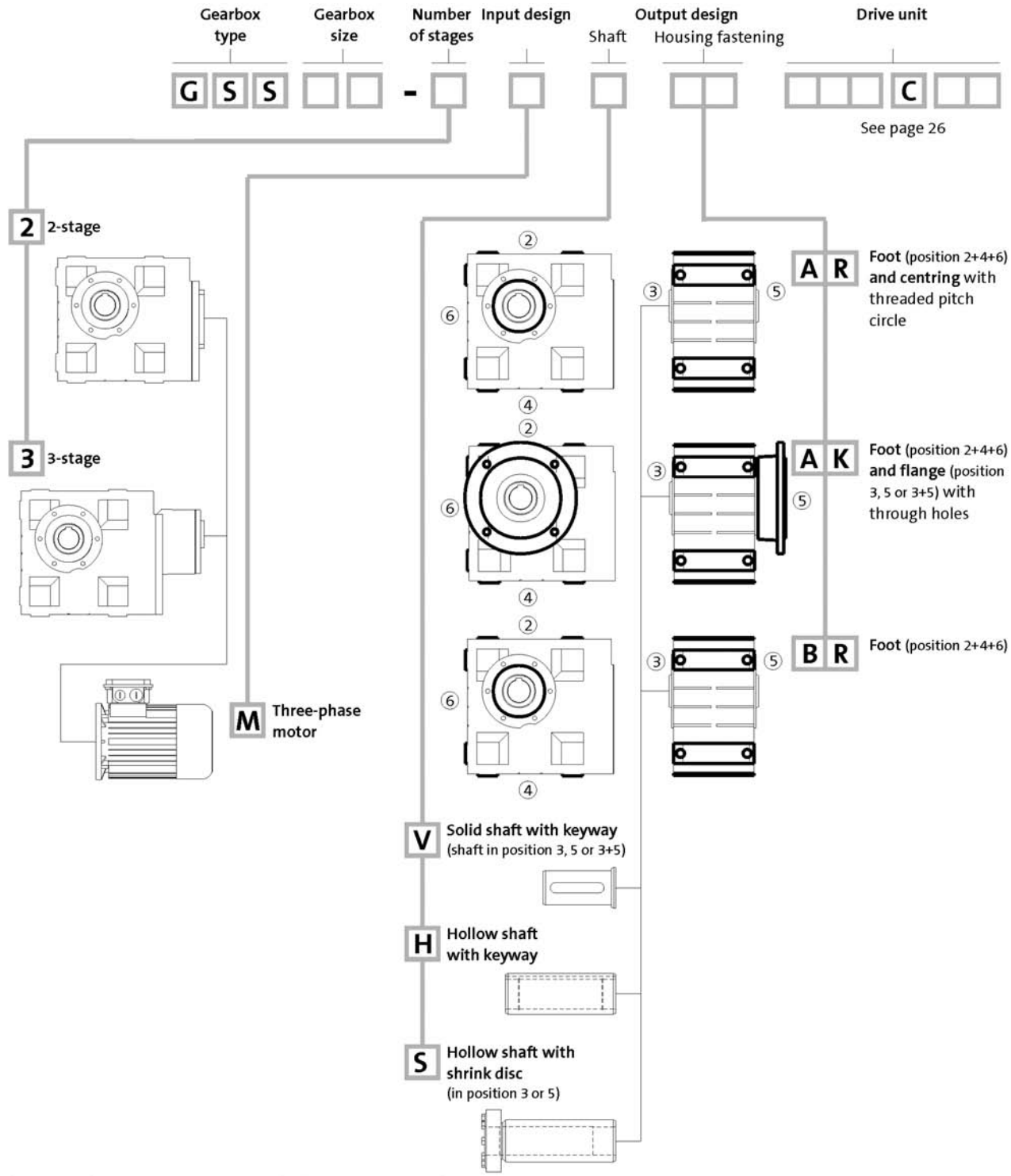
Without flange: 0
Flange: 3, 5, 8 (3+5)
Terminal box: 2, 3, 4, 5

Gearbox designs

Basic versions	
Motor efficiency	Increased efficiency (comparable with efficiency class IE2)
Surface and corrosion protection	OKS-G (primer: grey) OKS-S (paint: RAL 7012)
Lubricant	CLP 460 (mineral)
Ventilation	Oil control plugs for GKS05 ... 14 Breather elements for GKS06 ... 14

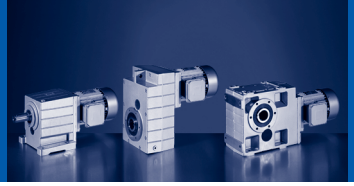
Options	
Surface and corrosion protection	OKS-S (special paint according to RAL) OKS-M (special paint according to RAL) OKS-L (special paint according to RAL)
Lubricant	CLP HC 320 (synthetic) CLP HC 220 USDA H1 (synthetic)
Shaft sealing rings	Driven shaft: Viton
Ventilation	Breather elements for GKS05 Compensation reservoir for GKS09 ... 14-3 in mounting position C
Accessories	Torque plate on threaded pitch circle Housing foot torque plate 2nd output shaft end Shrink disc cover Hoseproof hollow shaft cover Mounting set for hollow shaft circlip
Nameplate	Metal nameplate (supplied loose) Adhesive nameplate (supplied loose)

Helical-worm geared motors

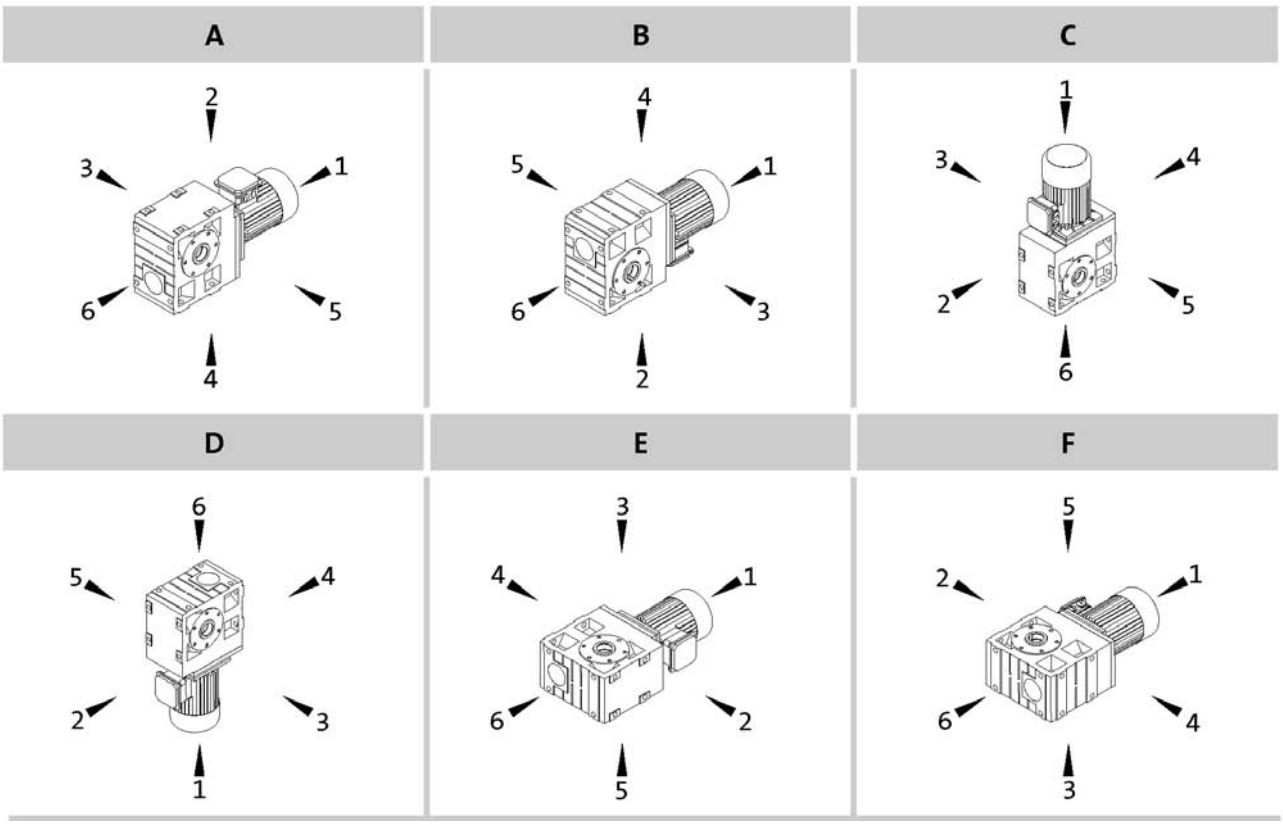


	Output design			
	V	H	S	K
	d x l [mm]	d [mm]	d [mm]	Øa2 [mm]
GSS04-2	25x50	25/30	25/30	160
GSS05-2/3	30x60	30/35	35	200
GSS06-2/3	40x80	40/45	40	200[1] /250
GSS07-2/3	50x100	50/55	50	250/300

[1] Only in the case of H and S type of output



Mounting position (A...F) and position of system blocks (1...6)



Hollow shaft: 0
Solid shaft: 3, 5, 8 (3+5)
Hollow shaft with shrink disc: 3, 5

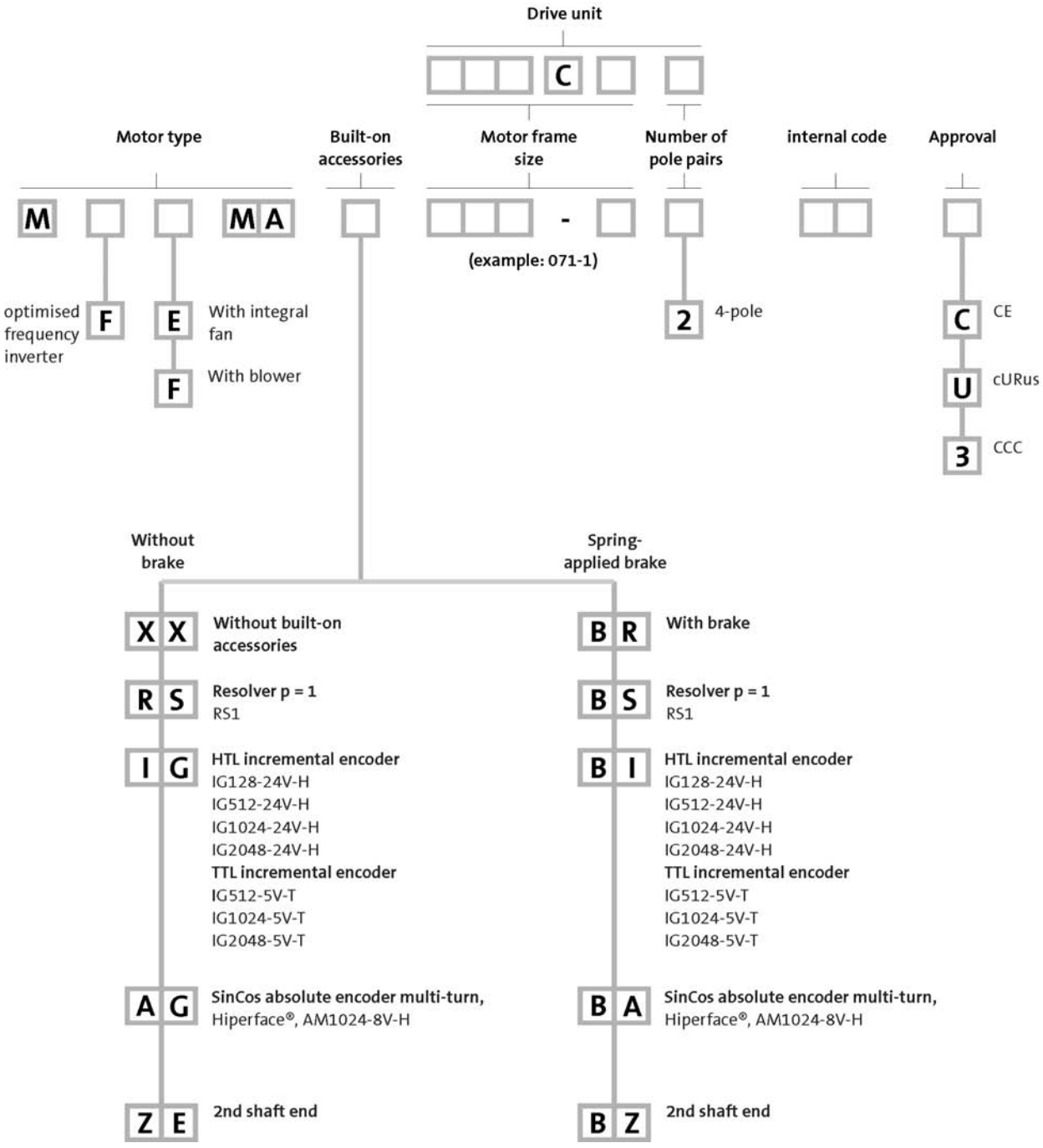
Without flange: 0
Flange: 3, 5, 8 (3+5)
Terminal box: 2, 3, 4, 5

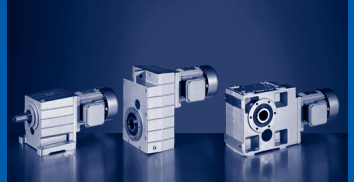
Gearbox designs

Basic versions	
Motor efficiency	Increased efficiency (comparable with efficiency class IE2)
Surface and corrosion protection	OKS-G (primer: grey) OKS-S (paint: RAL 7012)
Lubricant	CLP PG 460 (synthetic)
Ventilation	Oil control plugs for GSS05 ... 07 Breather elements for GSS05 ... 07

Options	
Surface and corrosion protection	OKS-S (special paint according to RAL) OKS-M (special paint according to RAL) OKS-L (special paint according to RAL)
Lubricant	CLP HC 220 USDA H1 (synthetic)
Shaft sealing rings	Driven shaft: Viton
Accessories	Torque plate on threaded pitch circle Housing foot torque plate 2nd output shaft end Shrink disc cover Hoseproof hollow shaft cover Mounting set for hollow shaft circlip
Nameplate	Metal nameplate (supplied loose) Adhesive nameplate (supplied loose)

Three-phase AC motors





Geared motors

Our quality standards in terms of development, material selection, production and assembly satisfy the very high requirements for a durable drive system. The distinctive design – cubic and compact – integrates seamlessly into the modern industrial landscape.

The MF geared motors are fully optimised for operation on an inverter.
The advantages for you:

- Up to 2 motor sizes smaller than standard three-phase AC motors
- The motors surpass the minimum efficiency levels of efficiency class IE2
- Large setting range: 1:24 (without field weakening)
- Dynamic due to low moment of inertia

Geared motor power range
Lenze inverter-optimised geared motors are available in a power range from 0.55 ... 22 kW.

Operational reliability for use in industrial applications
Even under harsh operating conditions, the reliability of the motors is assured by

- Insulation class F
- IP55
- Scalable measures for surface and corrosion protection

Motor options

- Spring-applied brake
- Blower
- Thermal protection variants
- Connectors
- Feedback systems
- Second shaft end
- Protection cover
- UL/CSA approval: cURus
- CCC approval

Compact
The modular base concept and the high power density due to ground gears with optimised teeth profiles make extremely compact designs possible.

Adaptable and compatible
Lenze geared motors can be adapted to almost any drive task, thanks to the variety of DE and NDE designs that are available.

Easy to integrate
Highly functional housings enable Lenze gearboxes to be integrated into the machine environment easily.

Quiet
Optimised geometry of the gear teeth minimises noise generation.

Closely stepped output speed
The large ratio ranges of the gearboxes combined with the small ratio step φ = 1.12 enable the required output speed to be selected with precision.

Reduced backlash
The two-stage basic concept (three-stage helical-bevel gearboxes), low-backlash connections and the high quality of the teeth (due to precision manufacturing) result in reduced output backlash in comparison with similar gearboxes.

Efficient
The comparatively high efficiency of the gearboxes, in conjunction with the efficient three-phase AC motors, ensures a uniformly efficient drive system. In this way, all the energy saving potential is exploited.

General information about the data provided in this catalogue

Powers, torques and speeds
The powers, torques and speeds specified in this catalogue are rounded values and are valid under the following conditions:

- Operating time/day = 8 h (100% OT)
- Duty class I for up to 10 switching operations/h
- Mounting positions and designs in this catalogue
- Standard lubricant
- T_{amb} = 20 °C for gearboxes,
  T_{amb} = 40 °C for motors (in accordance with EN 60034)
- Site altitude < = 1000 m amsl
- The selection tables provide the permissible mechanical powers and torques. For notes on the thermal power limit, see chapter drive dimensioning.
- The rated power specified for motors and geared motors applies to operating mode S1 (in accordance with EN 60034).

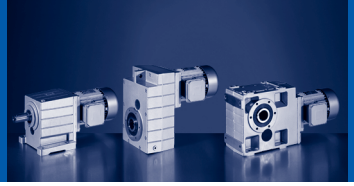
Under different operating conditions, the values obtained may vary from those listed here.
In the case of extreme operating conditions, please consult your Lenze sales office.

Load capacity c of gearbox
Rated value for the load capacity of Lenze geared motors.

- c is the ratio of the permissible rated torque of the gearbox to the rated torque supplied by the drive component (e.g. the built-in Lenze motor).
- The value of c must always be greater than the value of the application factor k calculated for the application.

Application factor k (according to DIN 3990)
Takes into account the influence of temporally variable loads which are actually present during the anticipated operating time of gearboxes and geared motors.
k is determined by:

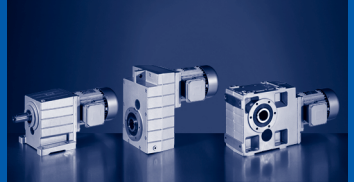
- The type of load
- The load intensity
- Temporal influences



$\eta_{100\,\%}$	[%]	Efficiency
$\eta_{75\,\%}$	[%]	Efficiency
η_a		Efficiency
$\eta_{c=1}$		Efficiency
cos φ		Power factor
$F_{ax,+}$	[N]	Max. axial force
$f_{in,max}$	[Hz]	Max. input frequency
f_{max}	[kHz]	Limit frequency
f_{max}	[kHz]	Max. switching frequency
$F_{rad,max}$	[N]	Max. radial force
H_{max}	[m]	Site altitude
$I_{in,max}$	[A]	Max. input current
I_{max}	[A]	Max. short-time DC-bus current
I_{max}	[A]	Max. current
I_{max}	[A]	Max. current brake chopper
I_{max}	[A]	Max. current consumption
I_{max}	[A]	Max. current
I_{max}	[A]	Max. DC-bus current
$I_{N,\Delta}$	[A]	Rated current
$I_{N,Y}$	[A]	Rated current
I_a / I_N		Starting current
J	[kgcm²]	Moment of inertia
m	[kg]	Mass
M_a	[Nm]	Starting torque
M_B	[Nm]	Braking torque
M_b	[Nm]	Stalling torque
M_k	[Nm]	rated torque
M_N	[Nm]	rated torque
n_{max}	[r/min]	Max. speed
n_{max}	[r/min]	Max. gearbox input speed
n_N	[r/min]	Rated speed
P	[kW]	Coil power
P	[kW]	Typical motor power
P_{max}	[kW]	Max. power input
P_N	[kW]	Rated power

Q_{BW}	[MJ]	Friction energy
Q_E	[KJ]	Maximum switching energy
R	[Ω]	Insulation resistance
R_N	[Ω]	Rated resistance
$S_{hü}$	[1/h]	Transition operating frequency
T	[°C]	Operating temperature
T	[°C]	Rated temperature
T	[°C]	Max. ambient temperature of bearing
T	[°C]	Max. surface temperature
T	[°C]	Max. ambient temperature for transport
T	[°C]	Min. ambient storage temperature
T	[°C]	Min. ambient temperature for transport
T	[°C]	Ambient temperature
t	[ms]	Min. rest time
t_1	[ms]	Engagement time
t_{11}	[ms]	Delay time
t_{12}	[ms]	Rise time
t_2	[ms]	Disengagement time
T_{max}	[°C]	Max. reset temperature
T_{min}	[°C]	Min. reset temperature
$T_{opr,max}$	[°C]	Max. ambient operating temperature
$T_{opr,min}$	[°C]	Min. ambient operating temperature
$t_ü$	[ms]	Overexcitation time
$U_{in,max}$	[V]	Max. input voltage
$U_{in,min}$	[V]	Min. input voltage
U_{max}	[V]	Max. input voltage
U_{max}	[V]	Max. mains voltage
U_{max}	[V]	Min. input voltage
U_{min}	[V]	Min. mains voltage
$U_{N,\Delta}$	[V]	Rated voltage
$U_{N,Y}$	[V]	Rated voltage
Z_{ro}	[Ω]	Rotor impedance
Z_{rs}	[Ω]	Impedance
Z_{so}	[Ω]	Stator impedance

CE	Communauté Européenne
CSA	Canadian Standards Association
DIN	Deutsches Institut für Normung e.V.
EMC	Electromagnetic compatibility
EN	European standard
IEC	International Electrotechnical Commission
IM	International Mounting Code
IP	International Protection Code
NEMA	National Electrical Manufacturers Association
UL	Underwriters Laboratory Listed Product
UR	Underwriters Laboratory Recognized Product
VDE	Verband deutscher Elektrotechniker (Association of German Electrical Engineers)
CCC	China Compulsory Certificate
GOST	Certificate for Russian Federation
cURus	Combined certification marks of UL for the USA and Canada
UkrSEPRO	Certificate for Ukraine



We want to be sure that you receive the correct products in good time.

To allow us to achieve this we need:
- Your address and your company data
- Our product key for the individual products in this catalogue
- Your delivery data such as delivery date and delivery address

Ordering procedure
Please use the ordering information checklist to ensure that you provide all the order information required for the various products.

The ordering information checklist, the product key, the basic versions, options, mounting position and position of the system blocks will be found in the General – Product key section.

A list of Lenze sales offices can be found at the end of this catalogue.

☐ Offer

Page __ of __

☐ Order

Customer No.

Job No.

Fax No.

1

Sender

Company

Made out by (name)

Street/P.O. Box

Department

P.O. Box, City

Telephone No.

Date Signature

Delivery address (if different)

Street/P.O. Box

Desired delivery date

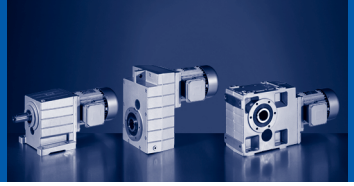
P.O. Box, City

Dispatching notes

Invoice recipient (if different)

Street/P.O. Box

Postal code, City



Helical geared motors

Customer No. ☐☐☐☐☐☐☐☐

Job No. ☐☐☐☐☐☐☐☐☐☐

Page __

Quantity ☐☐☐

Rated frequency ☐ 120 Hz

Ratio i ☐☐☐

GST ☐☐ – ☐1 ☐2 ☐3 M ☐V

Solid shaft d = (only with GST03) ☐ mm

☐A ☐B ☐C ☐R ☐K ☐L

Flange a_2 = ☐ mm

Motor frame size ☐☐☐C☐☐

Mounting position ☐A ☐B ☐C ☐D ☐E ☐F

Position of system blocks Terminal box ☐2 ☐3 ☐4 ☐5

Surface and corrosion protection

GST03 ☐ Without OKS (unpainted)

GST04 ... 14 ☐ OKS-S colour: RAL 7012 ☐ OKS-G (primed)

Options

Special lubricants

☐ CLP HC 320 (synthetic)

☐ CLP HC 220 USDA H1 (for the food industry)

Surface and corrosion protection

☐ OKS-S (small)

☐ OKS-M (medium) RAL ☐☐☐☐

☐ OKS-L (high)

☐ OKS-G (primed) only with GST03

Output shaft bearing

☐ Reinforced bearing for GST04 ... 09-2

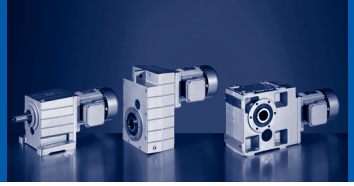
Shaft sealing rings

☐ Viton

Breathing by Ventilation

☐ Breather elements for GST05

☐ Compensation reservoir in mounting position for GST 09 ... 14-2



Shaft-mounted helical geared motors

Customer No. ☐☐☐☐☐☐☐☐

Job No. ☐☐☐☐☐☐☐☐☐☐

Page __

Quantity ☐

1

Rated frequency ☐ 120 Hz

Ratio i ☐

GFL ☐☐ – ☐ 2 / ☐ 3 M ☐ V / ☐ H / ☐ S

☐ A / ☐ B / ☐ C / ☐ D ☐ R / ☐ K

Motor frame size ☐☐☐C☐☐

Hollow shaft d = ☐ mm

Flange a_2 = ☐ mm

Mounting position A ☐ B ☐ C ☐ D ☐ E ☐ F ☐

Position of system blocks

Shaft/shrink disc 0 ☐ 6 ☐ 1 ☐

Foot 0 ☐ 3 ☐ 4 ☐

Terminal box 2 ☐ 3 ☐ 4 ☐ 5 ☐

Surface and corrosion protection

☐ OKS-S colour: RAL 7012

☐ OKS-G (primed)

Options

Special lubricants

☐ CLP HC 320 (synthetic)

☐ CLP HC 220 USDA H1 (for the food industry)

Surface and corrosion protection

☐ OKS-S (small)

☐ OKS-M (medium)

RAL ☐

☐ OKS-L (high)

☐ OKS-G (primed)

Accessories

☐ Rubber buffer for torque support

☐ Mounting set for hollow-shaft circlip

☐ Hollow shaft cover, hoseproof

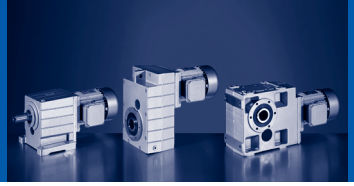
Shaft sealing rings

☐ Viton

Breathing by Ventilation

☐ Breather elements for GFL05

☐ Compensation reservoir in mounting position for GFL09 ... 14-2



Bevel geared motors

Customer No. ☐☐☐☐☐☐☐☐

Job No. ☐☐☐☐☐☐☐☐☐☐

Page __

Quantity ☐

Rated frequency ☐ 120 Hz

Ratio i ☐

GKR ☐☐ – 2 M ☐ V ☐ H ☐ S ☐ A ☐ B ☐ R ☐ K

Motor frame size ☐☐☐C☐☐

Hollow shaft d = ☐ mm

Flange a_2 = ☐ mm

Mounting position A ☐ B ☐ C ☐ D ☐ E ☐ F ☐

Position of system blocks

Shaft/shrink disc 0 ☐ 3 ☐ 4 ☐ 8 ☐

Flange 0 ☐ 3 ☐ 5 ☐ 8 ☐

Terminal box 2 ☐ 3 ☐ 4 ☐ 5 ☐

Surface and corrosion protection ☐ Without OKS (unpainted)

Options

Special lubricants

☐ CLP HC 320 (synthetic)

☐ CLP HC 220 USDA H1 (for the food industry)

Surface and corrosion protection

☐ OKS-S small)

☐ OKS-M (medium)

RAL ☐

☐ OKS-L (high)

☐ OKS-G (primed)

Accessories

☐ Rubber buffer for torque support (only GKR03/04)

☐ Torque support for housing foot (only GKR05/06)

☐ Torque support for threaded pitch circle

☐ 2nd output shaft end

☐ Mounting set for hollow-shaft circlip

☐ Shrink disc cover

☐ Hollow shaft cover, hoseproof

Shaft sealing rings ☐ Viton

Helical-bevel geared motors

Customer No. ☐☐☐☐☐☐☐☐

Job No. ☐☐☐☐☐☐☐☐☐☐

Page __

Quantity ☐☐☐

1

Rated frequency ☐ 120 Hz

Ratio i ☐☐☐

GKS ☐☐ – 3 / 4 M V / H / S A / B R / K

Motor frame size ☐☐☐C☐☐

Hollow shaft d = ☐ mm

Flange a_2 = ☐ mm

Mounting position A ☐ B ☐ C ☐ D ☐ E ☐ F ☐

Position of system blocks

Shaft/shrink disc				Flange				Terminal box			
0	3	4	8	0	3	5	8	2	3	4	5
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Surface and corrosion protection
☐ OKS-S colour: RAL 7012
☐ OKS-G (primed)

Options

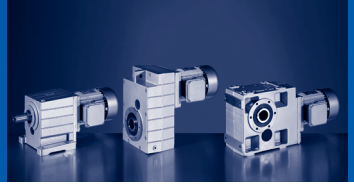
Special lubricants
☐ CLP HC 320 (synthetic)
☐ CLP HC 220 USDA H1 (for the food industry)

Surface and corrosion protection
☐ OKS-S (small)
☐ OKS-M (medium)
RAL ☐☐☐☐
☐ OKS-L (high)
☐ OKS-G (primed)

Accessories
☐ Torque support for housing foot
☐ Torque support for threaded pitch circle
☐ 2nd output shaft end
☐ Mounting set for hollow-shaft circlip
☐ Shrink disc cover
☐ Hollow shaft cover, hoseproof

Shaft sealing rings
☐ Viton

Breathing by Ventilation
☐ Breather elements for GKS05
☐ Compensation reservoir in mounting position for GKS09 ... 14-3



Helical-worm geared motors

Customer No. ☐☐☐☐☐☐☐☐

Job No. ☐☐☐☐☐☐☐☐☐☐

Page __

Quantity ☐

Rated frequency ☐ 120 Hz

Ratio i ☐

GSS ☐☐ – ☐ 2 / ☐ 3 M ☐ V / ☐ H / ☐ S ☐ A / ☐ B ☐ R / ☐ K Motor frame size ☐☐☐C☐☐

Hollow shaft d = ☐ mm

Flange a_2 = ☐ mm

Mounting position A ☐ B ☐ C ☐ D ☐ E ☐ F ☐

Position of system blocks

Shaft/shrink disc: 0 ☐ 3 ☐ 4 ☐ 8 ☐

Flange: 0 ☐ 3 ☐ 5 ☐ 8 ☐

Terminal box: 2 ☐ 3 ☐ 4 ☐ 5 ☐

Surface and corrosion protection

☐ OKS-S colour: RAL 7012

☐ OKS-G (primed)

Options

Special lubricants

☐ CLP HC 220 USDA H1 (for the food industry)

Surface and corrosion protection

☐ OKS-S (small)

☐ OKS-L (high)

☐ OKS-M (medium)

☐ OKS-G (primed)

RAL ☐

Accessories

☐ Torque support for housing foot

☐ 2nd output shaft end

☐ Shrink disc cover

☐ Torque support for threaded pitch circle

☐ Mounting set for hollow-shaft circlip

☐ Hollow shaft cover, hoseproof

Shaft sealing rings

☐ Viton

Breathing by Ventilation

☐ Breather elements for GSS05

Three-phase AC motors options

Customer No. ☐☐☐☐☐☐☐☐

Job No. ☐☐☐☐☐☐☐☐☐☐

Page __

1

Motor connection

Terminal box

- ☐ with plug-in connector ICN 6-pin. Adhere to permissible rated motor current limit 20 A!
- ☐ with plug-in connector ICN 8-pin. Adhere to permissible rated motor current limit 20 A!
- ☐ with plug-in connector HAN10E. Adhere to permissible rated current limit 16 A!
- ☐ with plug-in connector HAN-Modular. Adhere to permissible rated current limit 16 / 40 A!

Cable entry

only with M□□MAXX063 ... 132
or terminal box with plug-in connector
in position 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐

Blower

☐ 1~ ☐ 3~

☐ Terminal box with plug-in connector ICN

Terminal box position 2 ☐ 3 ☐ 4 ☐ 5 ☐

Spring-applied brake

Brake version ☐ Standard ☐ Longlife

Brake size ☐

Rated instead of Characteristic ☐ Nm

Rated voltage AC ☐ DC ☐ ☐ V

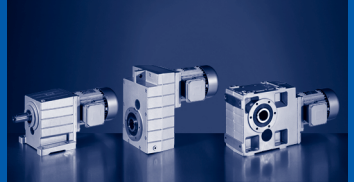
Rectifier

Only in the case of AC supply voltage

- ☐ Half-wave rectifier
- ☐ Bridge rectifier
- ☐ Bridge/half-wave rectifier (overexcitation)
- ☐ Bridge/half-wave rectifier (holding current reduction)

Brake options

Manual release lever in position 2 ☐ 3 ☐ 4 ☐ 5 ☐



Customer No. ☐☐☐☐☐☐☐☐

Job No. ☐☐☐☐☐☐☐☐☐☐

Page __

Speed/position encoder

Resolver ☐ RS1

Incremental encoder HTL ☐ IG128-24V-H ☐ IG512-24V-H ☐ IG1024-24V-H ☐ IG2048-24V-H

Incremental encoder TTL ☐ IG512-5V-T ☐ IG1024-5V-T ☐ IG2048-5V-T

Feedback with ICN connector ☐ IG128-24V-H not possible with plug-in connector!

Motor protection ☐ PTC ☐ KTY 83-110 ☐ KTY 84-130

Approval ☐ UL/CSA approval: cURus ☐ CCC ☐ China Energy Label

Further options

☐ Protection cover

☐ 2nd shaft end

☐ 2nd nameplate (adhesive nameplate/metal nameplate)

1

The selection tables shown the available combinations of gearbox type, number of stages, ratio and motor. The following legend indicates the structure of the selection tables.

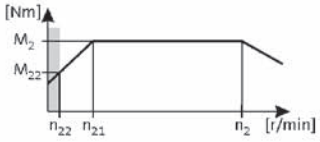
Gearbox type
Helical gearbox GST
Shaft-mounted GFL
Bevel gearbox GKR
Helical-bevel gearbox GKS
Helical-worm gearbox GSS

MF□MA : frequency inverter optimised

Rated power P_N of the drive motor in relation to the rated frequency → 120 Hz: P_N = 0.55 kW

Adjusting range → n_{22} / n_2 = 1 ... 24.0

Speed range of the drive motor → n_1 = 143.3 ... 3440 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
4.5	19	-	109	35	47	1.3	31.600	GST04-2M□L□063C32	E84AV□□□5514□□0	116
4.4	19	-	107	36	48	3.0	32.267	GST05-2M□□□063C32	E84AV□□□5514□□0	116
4.0	17	-	96	40	53	1.0	35.909	GST04-2M□L□063C32	E84AV□□□5514□□0	116

Product key of geared motor

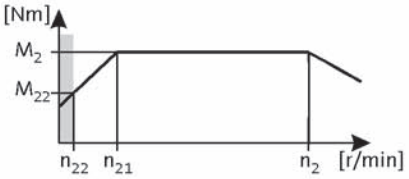
Product key of inverter

Ratio i

Page number for dimensions

Speed and torque information

The speed and torque information applies to self-ventilated and forced-ventilated drives. Externally cooled drives can always output the torque M_2 in all the setting ranges. In the case of self-ventilated drives, a reduction to M_{22} is necessary in the lower speed range.



The following applies to self-ventilated geared motors: n_{22} is the minimum speed at which the torque M_{22} is permissible. From n_{21} to n_2, the maximum torque is M_2. The following applies to forced-ventilated geared motors: From the minimum speed n_{22} to n_2, the maximum torque is M_2

The load capacity c of the gearbox c is the ratio of the gearbox's rated torque to the rated torque of the three-phase motor (calculated in respect of its application to the output shaft). c must always be greater than the application factor k determined for the application.

$$c = \frac{M_{2,zul}}{M_{1N} \cdot i \cdot \eta_{Getr}} > k$$

Thermal power limit

The thermal power limit, defined by the heat balance, limits the permissible gearbox continuous power. It may be less than the mechanical power ratings listed in the selection tables.

The thermal power limit is affected by:

- The churning losses in the lubricant. These are determined by the mounting position and the circumferential speed of the wheels
- The load and the speed
- The ambient conditions: temperature, air circulation, input or dissipation via shafts and the foundation

Please consult your Lenze subsidiary

- if the following input speeds n_1 are exceeded on a continuous basis (continuous is defined as more than 8 h/day):

Motor frame size	Mounting position A, B, E, F	Mounting position C, D
063 ... 100	3000 r/min	3000 r/min
112 ... 132	3000 r/min	1500 r/min

- if the following input speeds n_1 are exceeded:

Motor frame size	Mounting position A, B, E, F	Mounting position C, D
063 ... 100	4000 r/min	3000 r/min
112 ... 132	4000 r/min	2000 r/min

- or if you are using the following gearbox type, size and ratio combinations at an input speed of $n_1 > 1500$ r/min:

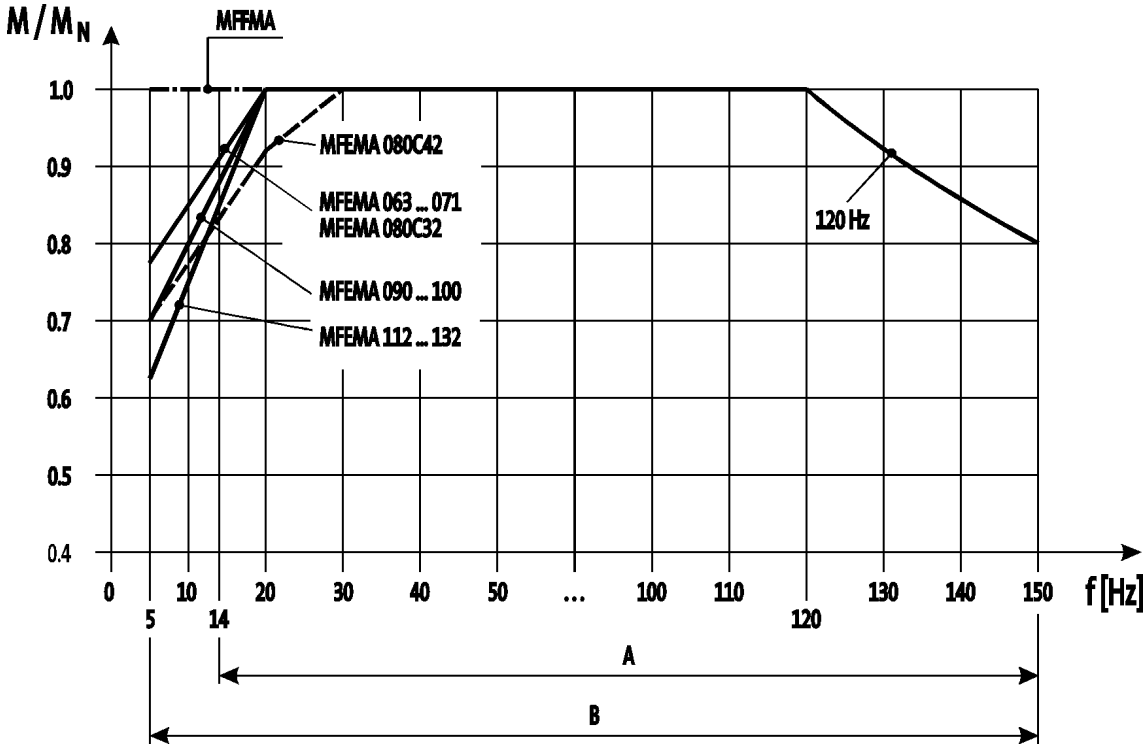
Gearbox type	Gearbox size	Ratio i
GST helical gearbox	07, 09, 11, 14	≤ 15
GFL shaft-mounted helical gearbox	07, 09, 11, 14	≤ 25
GKS helical-bevel gearbox	07, 09, 11, 14	≤ 40

Possible ways of extending the application area

- Synthetic lubricant (option)
- Shaft sealing rings made from FP material/Viton (option)
- Reduction in lubricant quantity
- Cooling of the geared motor by means of air convection on the machine/system

Torque derating at low motor frequencies

Torque reduction depending on motor frame size taking into account the thermal behaviour when operated with a frequency inverter.



A = Operation with integral fan and brake
B = Operation with integral fan and brake control "Holding current reduction"

- The technical data listed in this catalogue for motors in inverter operation applies for operation on a Lenze frequency inverter. If you are in any doubt, please ask the manufacturer of the frequency inverter whether the drive is able to operate the motor with the technical data listed (e.g. setting range, base frequency).

You can use the Drive Solution Designer for precise drive dimensioning.

The Drive Solution Designer helps you to carry out a fast and high-quality drive dimensioning.
The software includes well-founded and proven knowledge on drive applications and electro-mechanical drive components.

Please contact your Lenze sales office.

General data

Gearbox type	GST	GFL	GKR	GKS	GSS
Housing					
Design	Cuboid				
Material	Aluminium / cast iron				
Solid shaft					
Design	with keyway to DIN 6885				
Tolerance	k6 (d ≤ 50 mm) m6 (d > 50 mm)				
Material	Tempering steel C45 or 42CrMo4				
Hollow shaft					
Design		H: with keyway S: smooth			
Tolerance		Bore H7			
Material		Tempering steel C45			
Toothed parts					
Design	Optimised tooth flanks and profile geometry Ground tooth flanks				
Material	Case-hardened steel				Case-hardened steel, bronze (worm gear only)
Shaft-hub joint	1st stage/prestage/helical (bevel) gearbox: Friction-type connection Output stage (= 2nd, 3rd or 4th stage): Friction-type or positive-fit connection				
Shaft sealing rings					
Design	With dust lip				
Material	NB / FP				
Bearing					
Design	Ball bearing / tapered-roller bearing depending on size and design				
Lubricants					
Standard	DIN 51502				
Quantities	corresponding to mounting position (see operating instructions)				
Mechanical efficiency					
1-stage gearboxes [$\eta_{c=1}$]	0.98				
2-stage gearboxes [$\eta_{c=1}$]		0.97	0.96		0.62 ... 0.92 [1]
3-stage gearboxes [$\eta_{c=1}$]		0.95		0.95	0.64 ... 0.92 [1]
4-stage gearboxes [$\eta_{c=1}$]				0.93	
Notes					▶ Dependent on transmission ratio ▶ ˇHousing at operating temperature and teeth run in

[1] → 322 - Efficiencies depending on ratio

Ventilation

Gearboxes without ventilation
No ventilation measures are required for the following gearboxes:

- GST03 / 04
- GFL04
- GKR03...05
- GKS04
- GSS04

Gearboxes that may optionally be equipped with ventilation
Special measures are not usually required when using these gearboxes. In borderline cases, e.g. at input speeds > 2000 r/min, we recommend the use of breather elements which we can supply if required.

- GST05
- GFL05
- GKS05

Gearboxes with ventilation
The following gearboxes are supplied with breather elements as standard:

- GST06...14
- GFL06...14
- GKR06
- GKS06...14
- GSS05...07

Special measures for mounting position C (motor on top)
We recommend that an oil compensation reservoir is always used with gearbox sizes G□□09...14 in this mounting position. This reservoir can be purchased as an option. For illustrations and measures according to gearbox type see under Ventilation G□□ [⊗].

It is not required at higher ratios or low input speeds. Please contact Lenze in this event.

Lubricants

Lenze gearboxes and geared motors are ready for operation on delivery and are filled with lubricants that are specific to both the drive and the design. The mounting position and design specified in the order are decisive factors in choosing the volume of lubricant.

The lubricants listed in the lubricant table are approved for use in Lenze drives.

Lubricant table

Designation	CLP 460	CLP PG 460	CLP HC 320	CLP HC 220 USDA H1
Gearbox type	GST / GFL / GKR / GKS	GSS	GST / GFL / GKR / GKS	GST / GFL / GKR / GKS / GSS
Ambient temperature [°C]	0 ... +40	-20 ... +40	-25 ... +50	-20 ... +40
Specification	Mineral based oil with additives	Synthetic-based oil (polyglycol)	Synthetic-based oil (synthetic hydrocarbon / poly-alpha-olefin oil)	
Note		Cannot be mixed with other oil types.		For food processing industry
Changing interval	16000 operating hours not later than after three years (oil temperature 70...80 °C)	25000 operating hours not later than after three years (oil temperature 70...80 °C)		16000 operating hours not later than after three years (oil temperature 70...80 °C)
Fuchs	Fuchs Renolin CLP 460		Fuchs Renolin Unisyn CLP 320	bremer & leguil Cassida Fluid GL 220
Klüber	Klüberoil GEM1-460 N	Klübersynth GH 6-460	Klübersynth GEM4-320 N	Klüberoil 4 UH1-220 N
Shell	Shell Omala 460	Shell Tivela S 460	Shell Omala Oil HD 320	

- Please contact your Lenze office if you are operating in areas with < -20 °C bzw. >ambient temperatures +40°C.
- Caution: when using the lubricant CLP HC 220 on the GSS helical-worm gearbox, the torque M_2 must be reduced to 80 % of the values stated in the catalogue!

Surface and corrosion protection

For optimum protection of geared motors against ambient conditions, the surface and corrosion protection system (OKS) offers tailor-made solutions.

Various surface coatings combined with other protective measures ensure that the geared motors operate reliably even at high air humidity, in outdoor installation or in the presence of atmospheric impurities. Any colour from the RAL Classic collection can be chosen for the top coat. The geared motors are also available unpainted (no surface and corrosion protection).

OKS-G (primed)

Applications
- Dependent on subsequent top coat applied

Measures
- 1K primer (grey)
- Screws zinc-coated
- Stainless breather elements

Optional measures
- Stainless steel rating plate

OKS-S

Applications
- Standard applications
- Indoor installation in heated buildings
- Air humidity up to 90%

Measures
- Surface coating in accordance with corrosivity category C1 (in accordance with EN 12944-2)
- Screws zinc-coated
- Stainless breather elements

Optional measures
- Stainless steel rating plate

OKS-M

Applications
- Indoor installation in unheated buildings
- Outdoor installation in covered, protected area
- Air humidity up to 95 %

Measures
- Surface coating in accordance with corrosivity category C2 (in accordance with EN 12944-2)
- Screws zinc-coated
- Stainless breather elements

Optional measures
- Stainless steel shaft
- Stainless steel rating plate
- Rust-free shrink disc (on request)

OKS-L

Applications

- Outdoor installation
- Air humidity over 95%
- Chemical industrial plants
- Food industry

Measures

- Surface coating in accordance with corrosivity category C3 (in accordance with EN 12944-2)
- Fan cover and B end shield additionally primed
- Cable glands with gaskets
- Corrosion-resistant brake with cover ring, stainless friction plate, and chrome-plated armature plate (on request)
- All screws/screw plugs zinc-coated
- Stainless breather elements
- Threaded holes that are not used are closed by means of plastic plugs

Optional measures

- Sealed recesses on motor (on request)
- Stainless steel shaft
- Stainless steel rating plate
- Rust-free shrink disc (on request)
- Additional priming coat on cast iron fan
- Oil expansion tank and torque plates painted separately and supplied loose

A blower cannot be used in combination with OKS-L.

Structure of surface coating

Surface and corrosion protection system	Without	OKS-G	OKS-S	OKS-M	OKS-L
Corrosivity category according to DIN EN ISO 12944-2			C1	C2	C3
Structure of the surface coating					
Dipping primer		✕	✕	✕	✕
1K primer		▥		▥	
2K-EP primer					▥
2K-PUR top coat			▦	▦	▦
Colour		Grey	Standard: RAL 7012 Optional: According to RAL Classic		

- The gearboxes GST 03 and GKR 03 ... 06 have an aluminium housing, therefore a dipping primer is dispensed with in the case of these gearboxes.

Standards and operating conditions

Enclosure EN 60529			IP55
Approval Class			CCC cURus GOST-R UkrSepro
Temperature class IEC/EN 60034-1; utilisation IEC/EN 60034-1; insulation system (enamel-insulated wire)			 B F
Min. ambient operating temperature	$T_{opr,min}$	[°C]	-20
Max. ambient operating temperature With power reduction	$T_{opr,max}$ $T_{opr,max}$	[°C] [°C]	40.0 60
Site altitude Amsl power reduction above 1000 m	H_{max}	[m] [%/1000 m]	4000 5.00

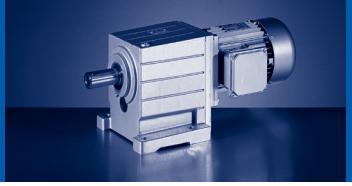
Options

	MF□□□□□063-32 MF□□□□□063-42	MF□□□□□071-32 MF□□□□□071-42
Cooling type	Integral fan Separate fan	
Spring-applied brake Design	Standard or LongLife design Reduced or standard braking torque With rectifier With manual release lever Low noise	
Feedback Design	Resolver Incremental encoder Absolute value encoder (multi-turn)	
Thermal sensor Thermal contact Thermal detector PTC thermistor	 TKO KTY83-110 KTY84-130 PTC	
Motor connection Power connection Brake connection Blower connection Feedback connection Temperature sensor connection	 Terminal box Connector ICN Terminal box HAN modular connector HAN10E connector Connector ICN Terminal box Connector ICN Terminal box Connector ICN Terminal box KTY at connector in the feedback connection TKO or PTC at connector in the power connection	
Shaft bearings Position of the locating bearing Bearing type	 Non-drive end Deep-groove ball bearing with high-temperature resistant grease, 2 sealing discs or cover plates	
Colour	Primed Paint in various corrosion-protection designs in accordance with RAL colours Not coated	
Further options	Protection cover	Protection cover 2nd shaft end

	MF□□□□□080-32 MF□□□□□080-42	MF□□□□□090-32	MF□□□□□100-12 MF□□□□□100-32
Cooling type	Integral fan Separate fan		
Spring-applied brake Design	Standard or LongLife design Reduced, standard or increased braking torque With rectifier With manual release lever Low noise		
Feedback Design	Resolver Incremental encoder Absolute value encoder (multi-turn)		
Thermal sensor Thermal contact Thermal detector PTC thermistor	 TKO KTY83-110 KTY84-130 PTC		
Motor connection Power connection Brake connection Blower connection Feedback connection Temperature sensor connection	 Terminal box HAN modular connector HAN10E connector Connector ICN Terminal box HAN modular connector HAN10E connector Connector ICN Terminal box Connector ICN Terminal box Connector ICN Terminal box KTY at connector in the feedback connection TKO or PTC at connector in the power connection		
Shaft bearings Position of the locating bearing Bearing type	 Non-drive end Deep-groove ball bearing with high-temperature resistant grease, 2 sealing discs or cover plates		
Colour	Primed Paint in various corrosion-protection designs in accordance with RAL colours Not coated		
Further options	Protection cover 2nd shaft end		

	MF□□□□□112-22	MF□□□□□132-12 MF□□□□□132-22 MF□□□□□132-32
Cooling type	Integral fan Separate fan	
Spring-applied brake Design	Standard design Reduced, standard or increased braking torque With rectifier With manual release lever Low noise	
Feedback Design	Resolver Incremental encoder Absolute value encoder (multi-turn)	
Thermal sensor Thermal contact Thermal detector PTC thermistor	 TKO KTY83-110 KTY84-130 PTC	
Motor connection Power connection Brake connection Blower connection Feedback connection Temperature sensor connection	Terminal box Terminal box Terminal box Connector ICN Terminal box Connector ICN Terminal box KTY at connector in the feedback connection	Terminal box HAN modular connector Terminal box HAN modular connector
Shaft bearings Position of the locating bearing Bearing type	Non-drive end Deep-groove ball bearing with high-temperature resistant grease, 2 sealing discs or cover plates	
Colour	Primed Paint in various corrosion-protection designs in accordance with RAL colours Not coated	
Further options	Protection cover 2nd shaft end	


n_1
d_1

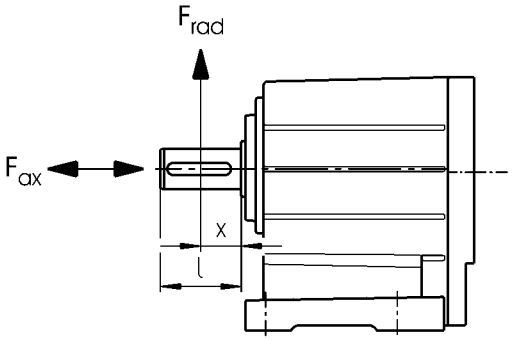


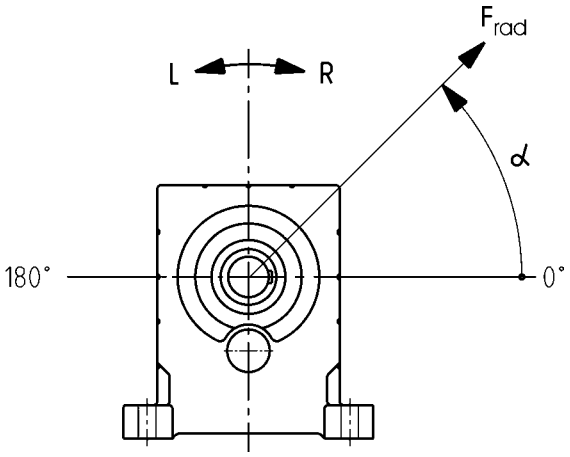
Permissible radial and axial forces at output

Permissible radial force
$F_{rad,per} = \min(f_w \times f_\alpha \times F_{rad,max}\ ;\ f_w \times F_{rad,max}$ at $n_2 \leq 50$ r/min)

Permissible axial force
$F_{ax,per} = F_{ax,max}$ if $F_{rad} = 0$

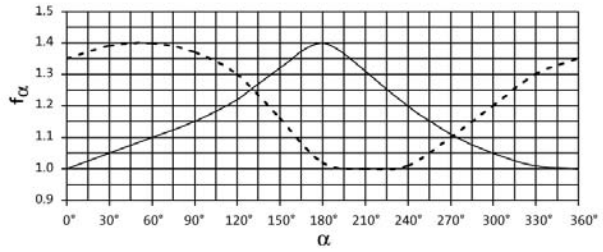
If F_{rad} **and** $F_{ax} \neq 0$, please contact Lenze.



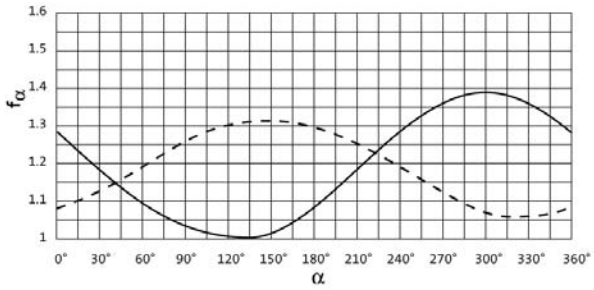


Effective direction factor f_α at output shaft

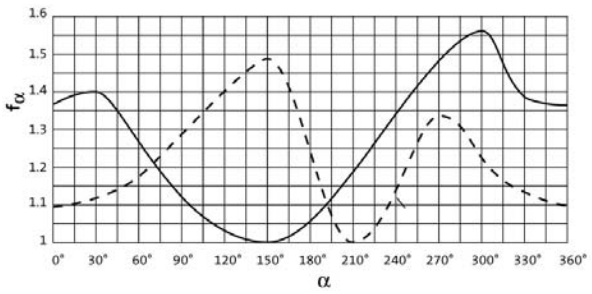
GST03-2



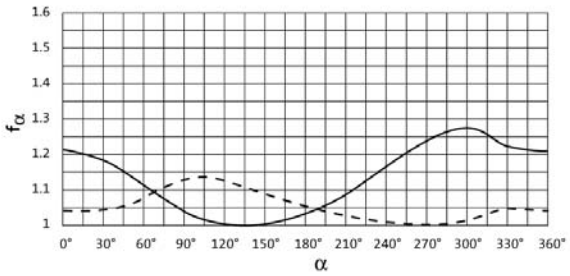
GST04...09-1



GST04...09-2, 3

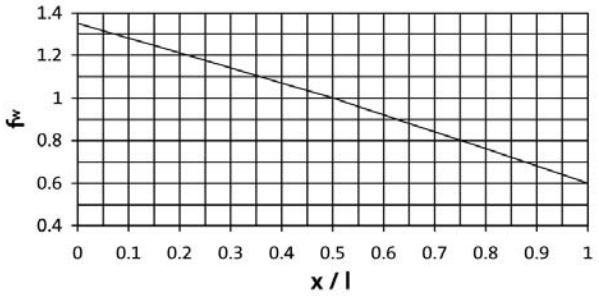
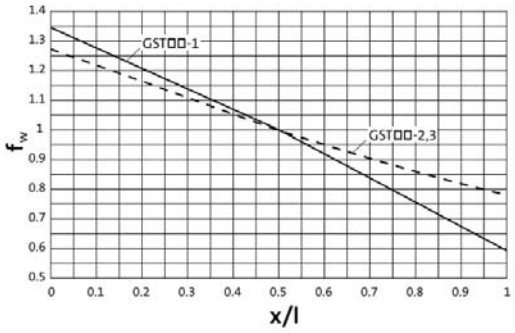


GST11...14-2, 3



——— Direction of rotation R
— — — Direction of rotation L

Additional load factor f_w at output shaft

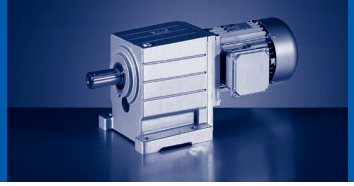
GST03-2	GST04...09-1, 2, 3
	

3

GST□□-1

Size	n_2 [r/min]								
Gearbox	2500	1600	1000	600	400	200	125	80	≤50
	Max. radial force, Solid shaft								
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GST04	100	180	440	600	850	1050	1050	1050	1050
GST05	100	250	550	750	1400	2000	2300	2300	2300
GST06	200	600	800	800	1100	2200	2900	3500	3500
GST07	700	1000	1200	1300	1900	3000	3900	4700	5300
GST09	1750	2200	2500	2500	3500	6200	7900	9000	9500
	Max. axial force, Solid shaft								
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GST04	600	800	1000	1300	1400	1400	1400	1400	1400
GST05	800	1100	1400	2000	2000	2000	2000	2000	2000
GST06	900	1200	1500	2000	2500	2500	2500	2500	2500
GST07	1200	1600	2000	2700	3300	3700	3700	3700	3700
GST09	2500	3400	4300	5700	6800	7000	7000	7000	7000

- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0



GST□□-2 / 3 with standard bearings

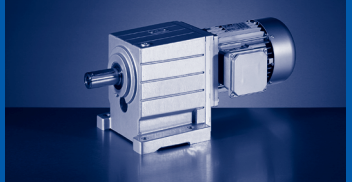
Size	n_2 [r/min]									
Gearbox	1000	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GST03	100	300	630	710	800	920	1100	1400	1500	1500
GST04	730	950	1250	1450	1700	2100	2500	2650	2650	2650
GST05	1150	1500	1950	2200	2600	3000	3500	3800	3900	3900
GST06	140	750	2350	2600	3100	3600	4300	4350	4350	4350
GST07	140	2050	3400	3800	4500	5400	6400	7600	9100	9500
GST09	1500	1950	6800	7600	9400	11500	11500	11500	11500	11500
GST11	11500	14400	17000	19000	21000	21000	21000	21000	21000	21000
GST14	16600	20700	24000	27000	31000	36000	39000	40000	40000	40000
	Max. axial force, Solid shaft									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GST03	300	400	600	700	800	900	1000	1000	1000	1000
GST04	600	800	1100	1300	1650	2000	2000	2000	2000	2000
GST05	1200	1600	2000	2300	2650	3100	3600	3600	3600	3600
GST06	500	600	850	900	1250	1800	2600	3600	4800	4800
GST07	1100	1500	1900	2200	2900	3900	5300	7000	7000	7000
GST09	1300	1800	2300	2800	4000	5600	8100	11000	12000	12000
GST11	5700	7600	9500	10000	11000	14000	16000	16000	16000	16000
GST14	9000	12000	15000	16000	18000	20000	20000	20000	20000	20000

- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0

GST□□-2 / 3 with reinforced bearing

Size	n_2 [r/min]									
Gearbox	1000	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft (reinforced bearings))									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GST04	1900	2350	2850	3150	3550	3750	3750	3750	3750	3750
GST05	3350	3950	4900	5400	5400	5400	5400	5400	5400	5400
GST06	4250	5100	6300	7000	7700	7700	7700	7700	7700	7700
GST07	5650	6850	8500	9500	10500	12500	13000	13000	13000	13000
GST09	11300	14000	16500	17000	17000	17000	17000	17000	17000	17000
	Max. axial force, Solid shaft (reinforced bearings))									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GST04	1000	1300	1700	1900	2200	2500	2500	2500	2500	2500
GST05	2100	2800	3600	3900	4300	4500	4500	4500	4500	4500
GST06	2100	2800	3500	3600	4200	4900	5700	5700	5700	5700
GST07	3300	4400	5500	6100	7100	8300	9000	9000	9000	9000
GST09	4800	6400	8000	9000	10500	12500	14000	14000	14000	14000

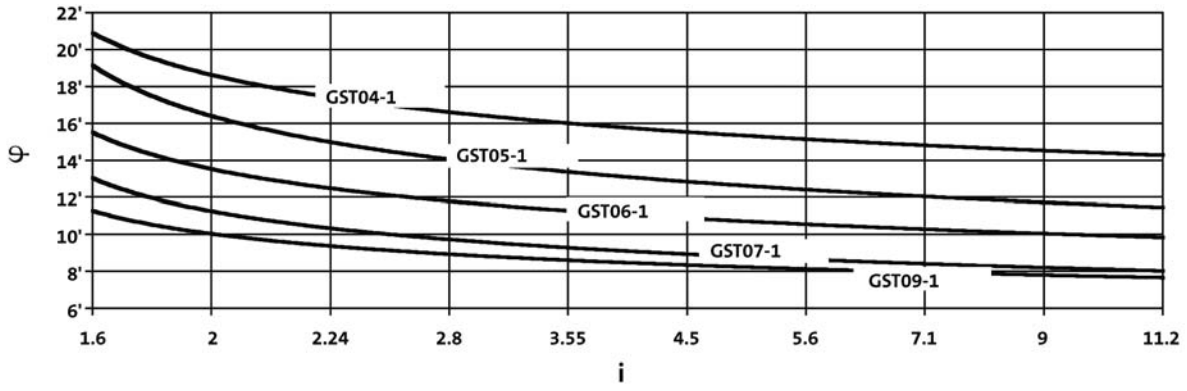
- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0



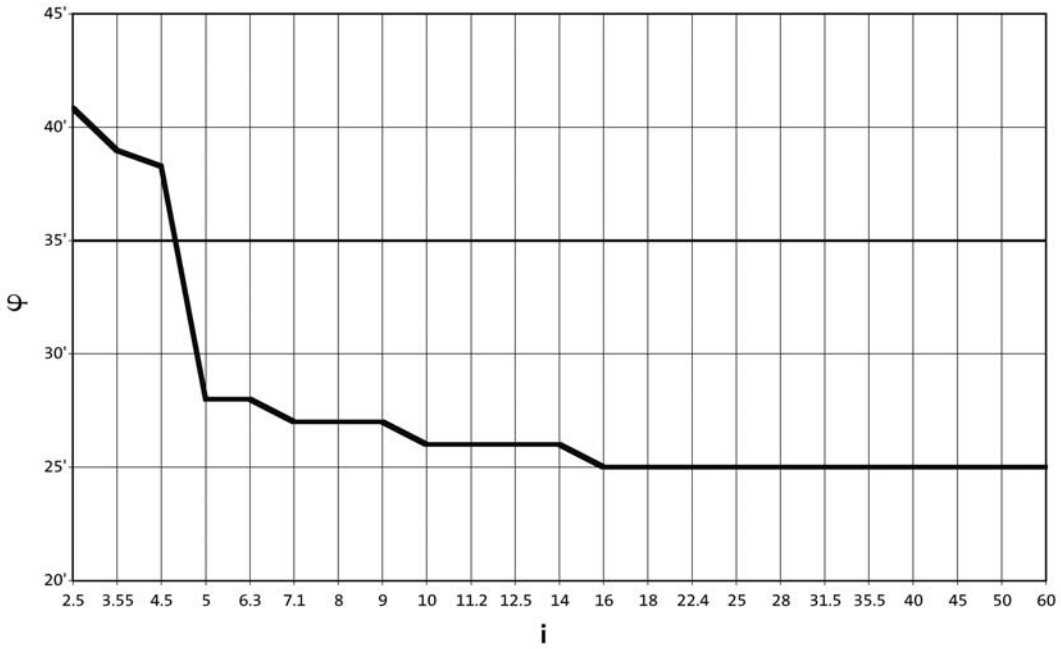
Output backlash in angular minutes

► Backlash φ depending on ratio i

GST04...09-1

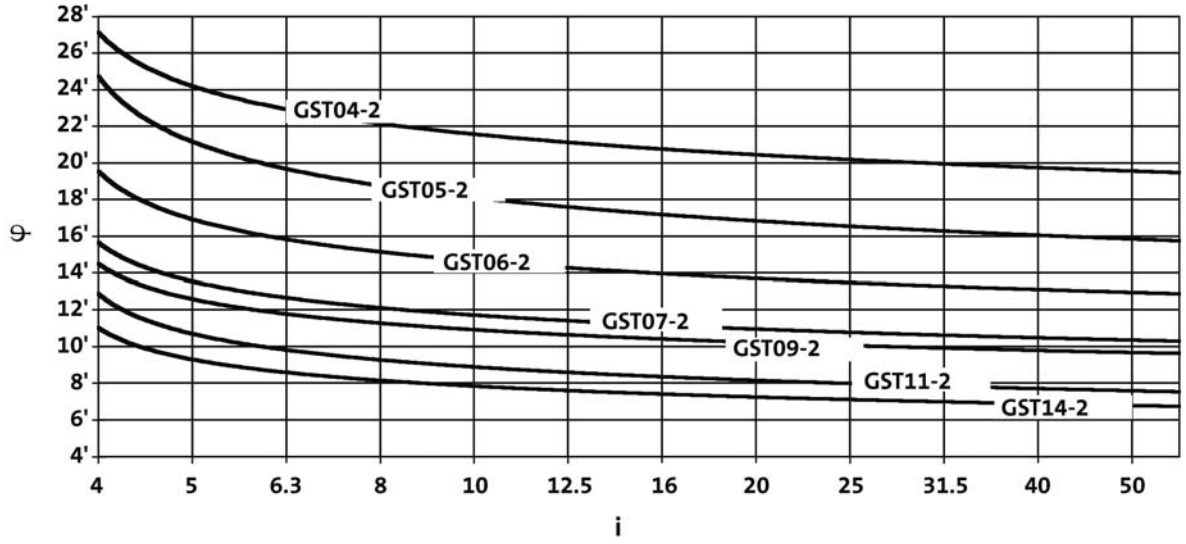


GST03-2

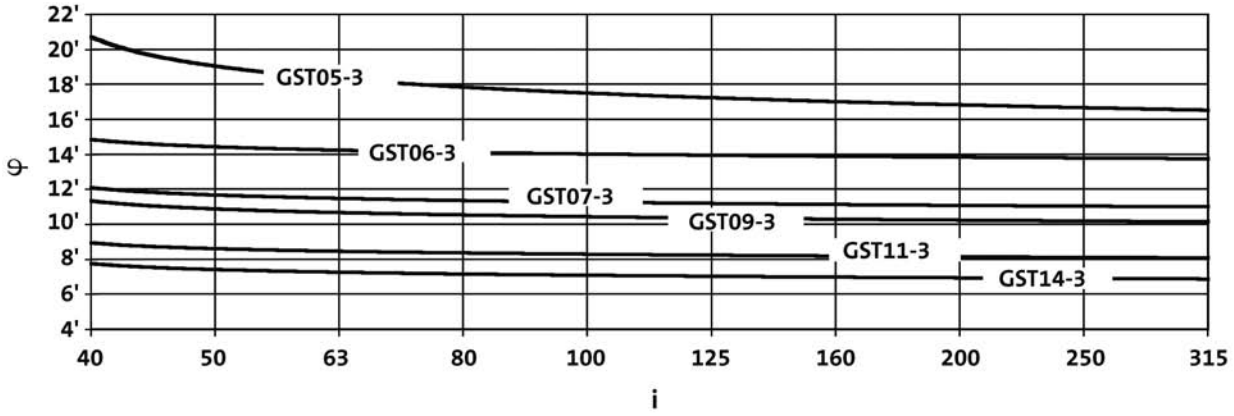


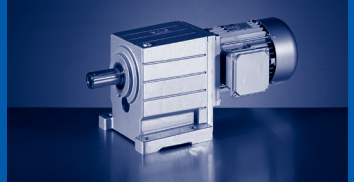
► Backlash φ depending on ratio i

GST04...14-2



GST05...14-3





GST□□-1

- Moment of inertia (J) depending on ratio i

Gearbox			GST04
1.600	J	[kgcm²]	0.267
2.048	J	[kgcm²]	0.194
2.240	J	[kgcm²]	0.172
2.857	J	[kgcm²]	0.126
3.500	J	[kgcm²]	0.099
4.400	J	[kgcm²]	0.067
5.667	J	[kgcm²]	0.047
7.182	J	[kgcm²]	0.031
9.000	J	[kgcm²]	0.022
11.857	J	[kgcm²]	0.013

Gearbox			GST05
1.600	J	[kgcm²]	0.760
2.048	J	[kgcm²]	0.549
2.240	J	[kgcm²]	0.480
2.857	J	[kgcm²]	0.354
3.500	J	[kgcm²]	0.272
4.556	J	[kgcm²]	0.175
5.667	J	[kgcm²]	0.129
7.333	J	[kgcm²]	0.062
8.900	J	[kgcm²]	0.060
11.375	J	[kgcm²]	0.039

Gearbox			GST06
1.600	J	[kgcm²]	2.010
2.048	J	[kgcm²]	1.460
2.240	J	[kgcm²]	1.270
2.857	J	[kgcm²]	0.969
3.500	J	[kgcm²]	0.736
4.556	J	[kgcm²]	0.481
5.667	J	[kgcm²]	0.359
7.333	J	[kgcm²]	0.226
8.900	J	[kgcm²]	0.167
11.250	J	[kgcm²]	0.109

Gearbox			GST07
1.625	J	[kgcm²]	6.120
2.000	J	[kgcm²]	4.780
2.240	J	[kgcm²]	4.020
2.857	J	[kgcm²]	2.690
3.500	J	[kgcm²]	2.150
4.556	J	[kgcm²]	1.370
5.583	J	[kgcm²]	1.050
7.333	J	[kgcm²]	0.664
8.900	J	[kgcm²]	0.494
11.250	J	[kgcm²]	0.320

Gearbox			GST09
1.560	J	[kgcm²]	22.200
2.048	J	[kgcm²]	15.600
2.333	J	[kgcm²]	12.200
2.810	J	[kgcm²]	9.580
3.444	J	[kgcm²]	7.300
4.667	J	[kgcm²]	4.600
5.667	J	[kgcm²]	3.510
7.333	J	[kgcm²]	2.260
8.900	J	[kgcm²]	1.660
11.250	J	[kgcm²]	1.110

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

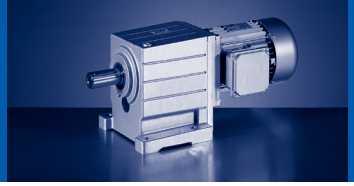
GST□□-2

► Moment of inertia (J) depending on ratio i

Gearbox			GST03
2.597	J	[kgcm²]	0.260
3.413	J	[kgcm²]	0.169
4.368	J	[kgcm²]	0.117
5.312	J	[kgcm²]	0.179
5.965	J	[kgcm²]	0.173
6.982	J	[kgcm²]	0.122
7.840	J	[kgcm²]	0.119
8.935	J	[kgcm²]	0.089
10.033	J	[kgcm²]	0.086
11.429	J	[kgcm²]	0.059
12.833	J	[kgcm²]	0.057
14.836	J	[kgcm²]	0.041
16.660	J	[kgcm²]	0.040
19.013	J	[kgcm²]	0.028
21.350	J	[kgcm²]	0.027
24.595	J	[kgcm²]	0.019
27.618	J	[kgcm²]	0.019
32.000	J	[kgcm²]	0.012
35.933	J	[kgcm²]	0.012
41.455	J	[kgcm²]	0.008
46.550	J	[kgcm²]	0.008
52.909	J	[kgcm²]	0.005
59.413	J	[kgcm²]	0.005

Gearbox			GST04
2.956	J	[kgcm²]	0.337
3.333	J	[kgcm²]	0.324
4.053	J	[kgcm²]	0.312
4.571	J	[kgcm²]	0.300
5.187	J	[kgcm²]	0.222
5.850	J	[kgcm²]	0.215
6.400	J	[kgcm²]	0.189
7.040	J	[kgcm²]	0.264
8.000	J	[kgcm²]	0.257
9.010	J	[kgcm²]	0.193
9.856	J	[kgcm²]	0.170
11.200	J	[kgcm²]	0.166
12.571	J	[kgcm²]	0.126
14.286	J	[kgcm²]	0.123
15.400	J	[kgcm²]	0.098
17.500	J	[kgcm²]	0.097
19.360	J	[kgcm²]	0.063
22.000	J	[kgcm²]	0.062
24.933	J	[kgcm²]	0.044
28.333	J	[kgcm²]	0.043
31.600	J	[kgcm²]	0.030
35.909	J	[kgcm²]	0.030
39.600	J	[kgcm²]	0.021
45.000	J	[kgcm²]	0.021
52.171	J	[kgcm²]	0.013
59.286	J	[kgcm²]	0.013

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

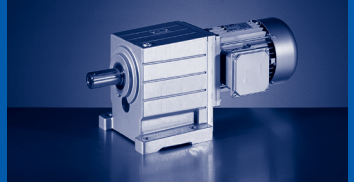


- Moment of inertia (J) depending on ratio i

Gearbox			GST05
2.956	J	[kgcm²]	0.986
3.333	J	[kgcm²]	0.944
4.053	J	[kgcm²]	0.903
4.571	J	[kgcm²]	0.864
5.187	J	[kgcm²]	0.637
5.850	J	[kgcm²]	0.613
6.400	J	[kgcm²]	0.533
7.238	J	[kgcm²]	0.400
8.163	J	[kgcm²]	0.388
9.010	J	[kgcm²]	0.543
10.000	J	[kgcm²]	0.300
11.200	J	[kgcm²]	0.462
13.016	J	[kgcm²]	0.178
14.356	J	[kgcm²]	0.131
16.190	J	[kgcm²]	0.128
17.500	J	[kgcm²]	0.271
20.044	J	[kgcm²]	0.164
22.778	J	[kgcm²]	0.161
24.933	J	[kgcm²]	0.119
28.333	J	[kgcm²]	0.117
32.267	J	[kgcm²]	0.079
36.667	J	[kgcm²]	0.078
39.160	J	[kgcm²]	0.058
44.500	J	[kgcm²]	0.057
50.050	J	[kgcm²]	0.039
56.875	J	[kgcm²]	0.038

Gearbox			GST06
3.033	J	[kgcm²]	2.720
3.333	J	[kgcm²]	2.610
4.160	J	[kgcm²]	2.510
4.571	J	[kgcm²]	2.410
5.324	J	[kgcm²]	1.760
5.850	J	[kgcm²]	1.710
6.400	J	[kgcm²]	1.470
7.040	J	[kgcm²]	2.070
8.163	J	[kgcm²]	1.060
9.010	J	[kgcm²]	1.500
10.000	J	[kgcm²]	0.820
11.200	J	[kgcm²]	1.260
12.571	J	[kgcm²]	0.955
14.286	J	[kgcm²]	0.932
15.400	J	[kgcm²]	0.748
17.500	J	[kgcm²]	0.733
20.044	J	[kgcm²]	0.457
22.778	J	[kgcm²]	0.450
24.933	J	[kgcm²]	0.332
28.333	J	[kgcm²]	0.326
32.267	J	[kgcm²]	0.221
36.667	J	[kgcm²]	0.218
39.160	J	[kgcm²]	0.162
44.500	J	[kgcm²]	0.160
49.500	J	[kgcm²]	0.110
56.250	J	[kgcm²]	0.108

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

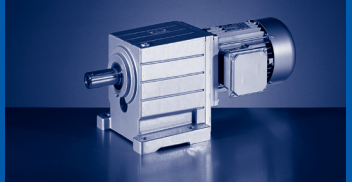


- Moment of inertia (J) depending on ratio i

Gearbox			GST07
3.048	J	[kgcm²]	8.200
3.350	J	[kgcm²]	7.920
4.225	J	[kgcm²]	7.650
4.643	J	[kgcm²]	7.390
5.200	J	[kgcm²]	5.640
5.714	J	[kgcm²]	5.460
6.400	J	[kgcm²]	4.490
7.150	J	[kgcm²]	6.270
8.125	J	[kgcm²]	6.040
8.800	J	[kgcm²]	4.730
9.856	J	[kgcm²]	3.900
11.200	J	[kgcm²]	3.780
12.571	J	[kgcm²]	2.860
14.286	J	[kgcm²]	2.790
15.400	J	[kgcm²]	2.260
17.500	J	[kgcm²]	2.210
20.044	J	[kgcm²]	1.380
22.778	J	[kgcm²]	1.350
24.567	J	[kgcm²]	1.020
27.917	J	[kgcm²]	1.010
32.267	J	[kgcm²]	0.664
36.667	J	[kgcm²]	0.653
39.160	J	[kgcm²]	0.487
44.500	J	[kgcm²]	0.479
49.500	J	[kgcm²]	0.330
56.250	J	[kgcm²]	0.325

Gearbox			GST09
4.056	J	[kgcm²]	27.000
4.457	J	[kgcm²]	25.900
5.324	J	[kgcm²]	18.100
5.850	J	[kgcm²]	17.500
6.667	J	[kgcm²]	14.200
7.305	J	[kgcm²]	11.300
8.027	J	[kgcm²]	11.000
9.010	J	[kgcm²]	15.200
10.267	J	[kgcm²]	12.400
11.667	J	[kgcm²]	12.100
12.362	J	[kgcm²]	9.790
14.048	J	[kgcm²]	9.530
15.156	J	[kgcm²]	7.650
17.222	J	[kgcm²]	7.490
20.533	J	[kgcm²]	4.500
23.333	J	[kgcm²]	4.410
24.933	J	[kgcm²]	3.380
28.333	J	[kgcm²]	3.320
32.267	J	[kgcm²]	2.250
36.667	J	[kgcm²]	2.210
39.160	J	[kgcm²]	1.640
44.500	J	[kgcm²]	1.620
49.500	J	[kgcm²]	1.120
56.250	J	[kgcm²]	1.100

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



- Moment of inertia (J) depending on ratio i

Gearbox			GST11
4.056	J	[kgcm²]	82.200
4.457	J	[kgcm²]	79.000
5.324	J	[kgcm²]	55.400
5.850	J	[kgcm²]	53.500
6.400	J	[kgcm²]	45.700
6.864	J	[kgcm²]	67.500
7.800	J	[kgcm²]	65.100
9.010	J	[kgcm²]	46.800
9.856	J	[kgcm²]	40.200
11.200	J	[kgcm²]	39.000
12.571	J	[kgcm²]	29.400
14.286	J	[kgcm²]	28.700
15.400	J	[kgcm²]	23.000
17.500	J	[kgcm²]	22.500
20.289	J	[kgcm²]	14.300
23.056	J	[kgcm²]	14.100
24.933	J	[kgcm²]	10.600
28.333	J	[kgcm²]	10.400
32.267	J	[kgcm²]	7.040
36.667	J	[kgcm²]	6.930
39.160	J	[kgcm²]	5.150
44.500	J	[kgcm²]	5.080
49.500	J	[kgcm²]	3.520
56.250	J	[kgcm²]	3.440

Gearbox			GST14
4.225	J	[kgcm²]	226.000
4.643	J	[kgcm²]	216.000
5.200	J	[kgcm²]	168.000
5.714	J	[kgcm²]	161.000
6.286	J	[kgcm²]	141.000
7.150	J	[kgcm²]	183.000
8.027	J	[kgcm²]	100.000
8.800	J	[kgcm²]	139.000
9.841	J	[kgcm²]	75.100
11.000	J	[kgcm²]	119.000
12.362	J	[kgcm²]	89.000
14.048	J	[kgcm²]	86.600
15.156	J	[kgcm²]	67.600
17.222	J	[kgcm²]	66.000
20.044	J	[kgcm²]	45.800
22.778	J	[kgcm²]	44.900
24.567	J	[kgcm²]	33.200
27.917	J	[kgcm²]	32.600
32.267	J	[kgcm²]	21.500
36.667	J	[kgcm²]	21.200
39.160	J	[kgcm²]	15.700
44.500	J	[kgcm²]	15.500
49.500	J	[kgcm²]	10.600
56.250	J	[kgcm²]	10.500

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

GST□□-3

► Moment of inertia (J) depending on ratio i

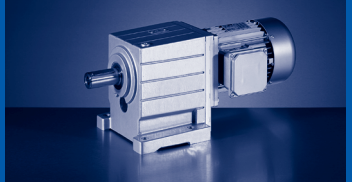
Gearbox			GST05
36.267	J	[kgcm²]	0.195
46.259	J	[kgcm²]	0.141
56.667	J	[kgcm²]	0.108
63.467	J	[kgcm²]	0.192
71.238	J	[kgcm²]	0.073
80.952	J	[kgcm²]	0.139
91.746	J	[kgcm²]	0.050
99.167	J	[kgcm²]	0.107
116.277	J	[kgcm²]	0.033
124.667	J	[kgcm²]	0.072
145.714	J	[kgcm²]	0.023
160.556	J	[kgcm²]	0.050
179.067	J	[kgcm²]	0.033
191.973	J	[kgcm²]	0.014
224.400	J	[kgcm²]	0.023
255.000	J	[kgcm²]	0.023
295.638	J	[kgcm²]	0.014
335.952	J	[kgcm²]	0.014

Gearbox			GST06
39.200	J	[kgcm²]	0.362
44.000	J	[kgcm²]	0.195
51.022	J	[kgcm²]	0.320
53.900	J	[kgcm²]	0.178
67.760	J	[kgcm²]	0.114
70.156	J	[kgcm²]	0.160
80.952	J	[kgcm²]	0.203
87.267	J	[kgcm²]	0.150
99.167	J	[kgcm²]	0.150
109.707	J	[kgcm²]	0.096
124.667	J	[kgcm²]	0.096
141.289	J	[kgcm²]	0.063
160.556	J	[kgcm²]	0.063
179.067	J	[kgcm²]	0.043
203.485	J	[kgcm²]	0.042
231.733	J	[kgcm²]	0.040
255.000	J	[kgcm²]	0.029
290.400	J	[kgcm²]	0.027
330.000	J	[kgcm²]	0.027
382.590	J	[kgcm²]	0.026
434.762	J	[kgcm²]	0.025

Gearbox			GST07
39.200	J	[kgcm²]	0.974
44.000	J	[kgcm²]	0.534
51.022	J	[kgcm²]	0.843
53.900	J	[kgcm²]	0.484
65.079	J	[kgcm²]	0.313
70.156	J	[kgcm²]	0.431
79.762	J	[kgcm²]	0.536
85.983	J	[kgcm²]	0.400
97.708	J	[kgcm²]	0.399
111.915	J	[kgcm²]	0.238
127.176	J	[kgcm²]	0.237
139.211	J	[kgcm²]	0.166
158.194	J	[kgcm²]	0.166
180.156	J	[kgcm²]	0.108
204.722	J	[kgcm²]	0.107
236.622	J	[kgcm²]	0.101
248.458	J	[kgcm²]	0.077
268.889	J	[kgcm²]	0.101
326.333	J	[kgcm²]	0.073
367.033	J	[kgcm²]	0.094
417.083	J	[kgcm²]	0.067

Gearbox			GST09
40.136	J	[kgcm²]	2.140
43.267	J	[kgcm²]	1.550
49.167	J	[kgcm²]	1.530
53.044	J	[kgcm²]	1.380
60.278	J	[kgcm²]	1.370
71.867	J	[kgcm²]	1.170
81.667	J	[kgcm²]	1.160
93.541	J	[kgcm²]	0.706
99.167	J	[kgcm²]	1.070
113.585	J	[kgcm²]	0.652
129.074	J	[kgcm²]	0.649
141.289	J	[kgcm²]	0.458
160.556	J	[kgcm²]	0.456
182.844	J	[kgcm²]	0.297
207.778	J	[kgcm²]	0.295
236.622	J	[kgcm²]	0.275
252.167	J	[kgcm²]	0.212
268.889	J	[kgcm²]	0.275
326.333	J	[kgcm²]	0.198
363.000	J	[kgcm²]	0.255
412.500	J	[kgcm²]	0.183

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



- Moment of inertia (J) depending on ratio i

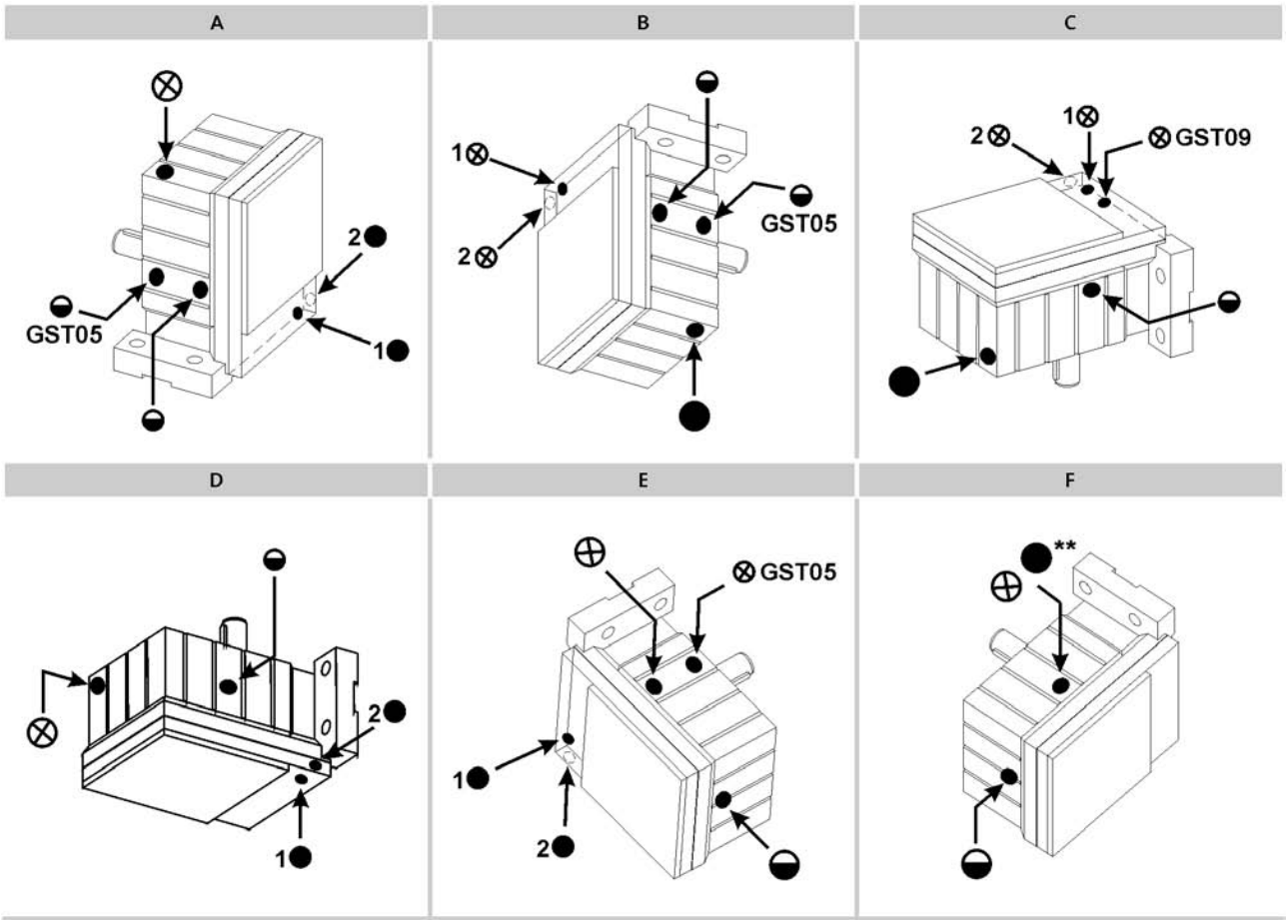
Gearbox			GST11
40.816	J	[kgcm²]	6.360
44.000	J	[kgcm²]	5.660
50.000	J	[kgcm²]	5.600
57.968	J	[kgcm²]	4.770
61.250	J	[kgcm²]	4.080
71.011	J	[kgcm²]	3.520
80.694	J	[kgcm²]	3.500
87.267	J	[kgcm²]	3.220
99.167	J	[kgcm²]	3.200
112.933	J	[kgcm²]	2.930
129.074	J	[kgcm²]	1.940
146.993	J	[kgcm²]	1.770
158.194	J	[kgcm²]	1.400
180.156	J	[kgcm²]	1.290
207.778	J	[kgcm²]	0.880
236.622	J	[kgcm²]	0.818
252.167	J	[kgcm²]	0.633
268.889	J	[kgcm²]	0.816
326.333	J	[kgcm²]	0.589
363.000	J	[kgcm²]	0.756
412.500	J	[kgcm²]	0.545

Gearbox			GST14
40.185	J	[kgcm²]	24.400
42.580	J	[kgcm²]	18.300
48.386	J	[kgcm²]	18.100
53.148	J	[kgcm²]	20.500
59.321	J	[kgcm²]	13.200
69.042	J	[kgcm²]	11.500
78.457	J	[kgcm²]	11.400
93.541	J	[kgcm²]	6.570
96.157	J	[kgcm²]	10.400
106.296	J	[kgcm²]	6.520
130.278	J	[kgcm²]	6.000
139.211	J	[kgcm²]	4.420
158.194	J	[kgcm²]	4.400
171.111	J	[kgcm²]	5.490
204.722	J	[kgcm²]	2.860
236.622	J	[kgcm²]	2.650
248.458	J	[kgcm²]	2.060
268.889	J	[kgcm²]	2.650
326.333	J	[kgcm²]	1.920
363.000	J	[kgcm²]	2.450
412.500	J	[kgcm²]	1.780

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

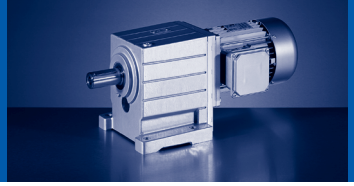
Position of ventilation, sealing elements and oil level check

GST05...09-1

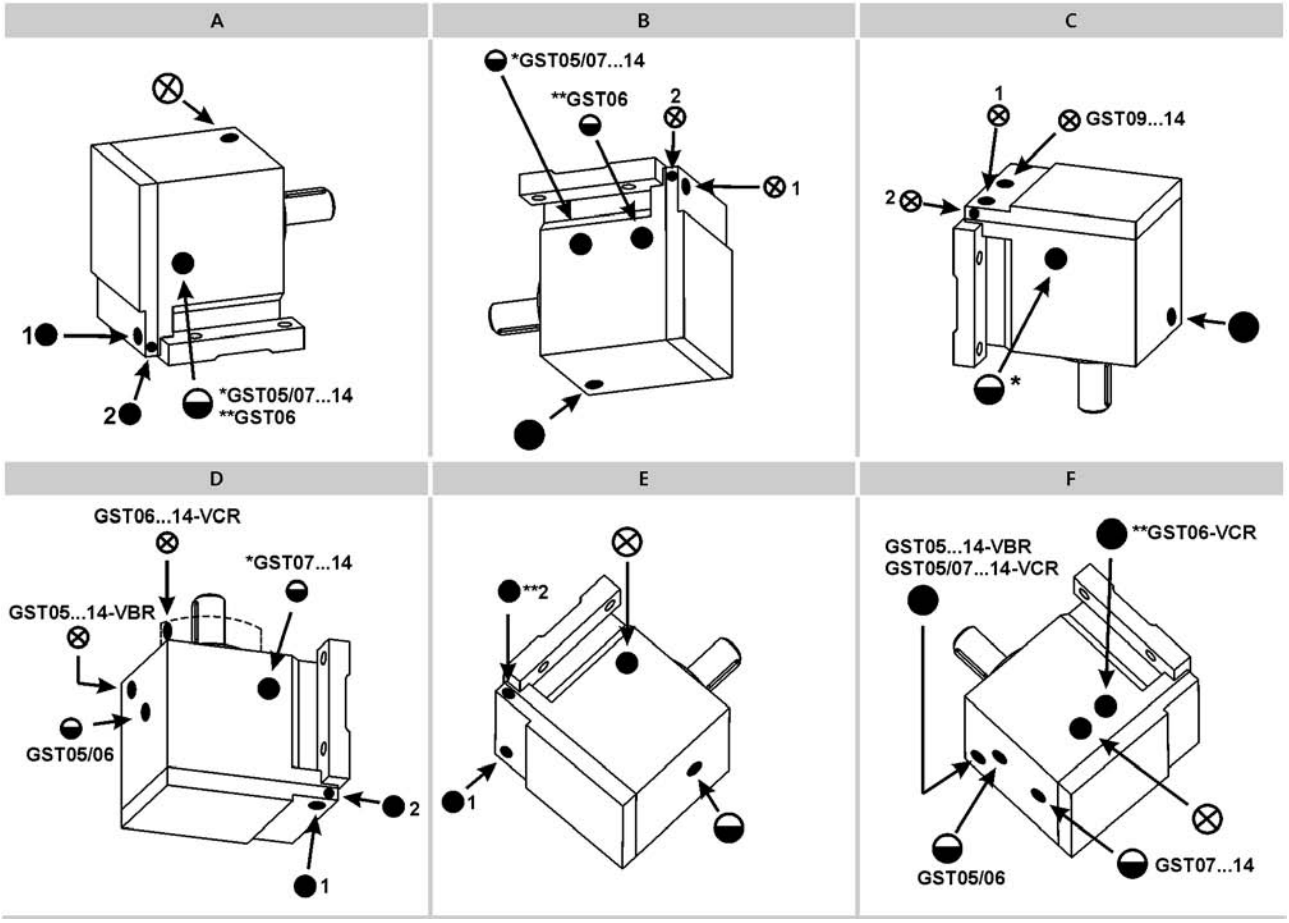


A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

Pos.1 standard
Pos.2 only with:
- GST05-1M V□□ 090C□□
- GST05-1M V□□ 100C□□
- GST06-1M V□□ 112C□□



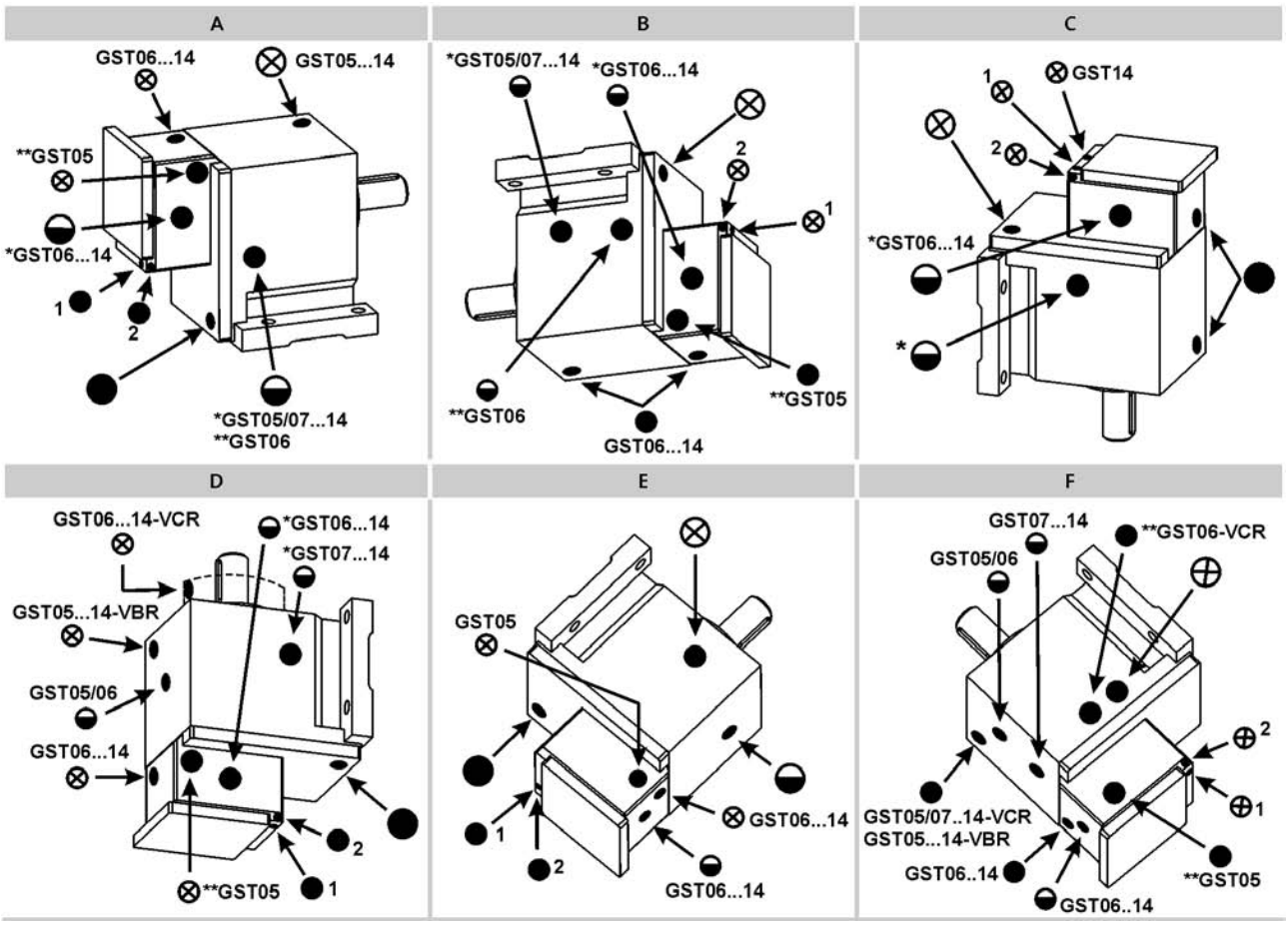
GST05...14-2



A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

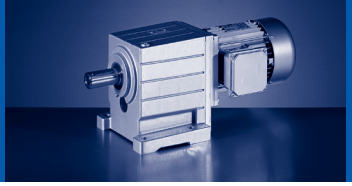
Pos.1 standard
Pos.2 only with:
- GST05-2M V□□ 090C□□
- GST05-2M V□□ 100C□□
- GST06-2M V□□ 112C□□

GST05...14-3



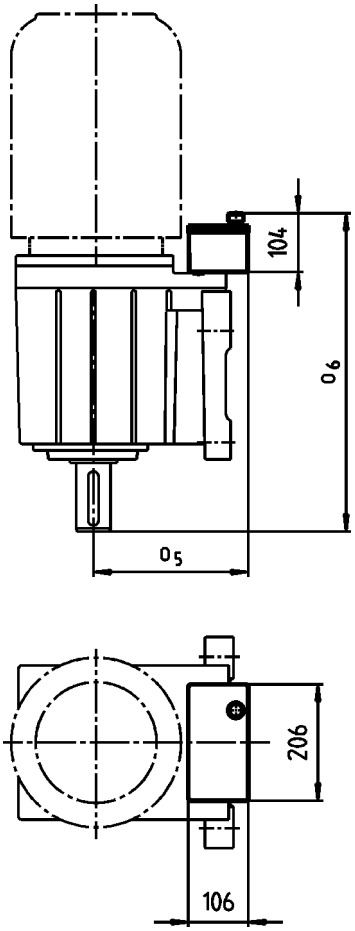
A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

Item 1 standard
Item 2 only with:
- GST07-3M V□□ 090C□□
- GST07-3M V□□ 100C□□
- GST09-3M V□□ 112C□□



Compensation reservoir for mounting position C

GST□□-2



Motor	090 100		112		132			
	ø5	ø6	ø5	ø6	ø5	ø6	ø5	ø6
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
GST09	206	477	226	477	245	477	245	477
GST11	208	536	230	540	254	540	254	540
GST14			252	640	282	640	282	640

► Terminal box position 4 not permitted.

GST□□-1M VBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GST04	m	[kg]	8	10	16	
GST05	m	[kg]	12	14	19	27
GST06	m	[kg]	16	18	23	31
GST07	m	[kg]			33	41
GST09	m	[kg]				55

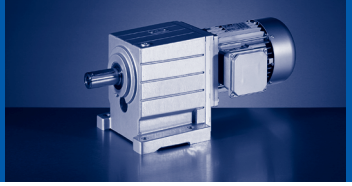
			100C12 100C32	112C22	132C12 132C22	132C32
GST05	m	[kg]	35			
GST06	m	[kg]	40	53		
GST07	m	[kg]	49	62	92	
GST09	m	[kg]	64	76	107	

GST□□-1M VCR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GST04	m	[kg]	8	10	15	
GST05	m	[kg]	11	13	18	26
GST06	m	[kg]	15	17	21	30
GST07	m	[kg]			29	38
GST09	m	[kg]				51

			100C12 100C32	112C22	132C12 132C22	132C32
GST05	m	[kg]	34			
GST06	m	[kg]	38	51		
GST07	m	[kg]	46	59	89	
GST09	m	[kg]	59	72	102	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

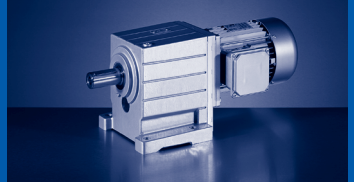


GST□□-1M VCK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GST04	m	[kg]	9	11	16	
GST05	m	[kg]	13	15	19	27
GST06	m	[kg]	18	20	24	33
GST07	m	[kg]			33	42
GST09	m	[kg]				58

			100C12 100C32	112C22	132C12 132C22	132C32
GST05	m	[kg]	36			
GST06	m	[kg]	41	54		
GST07	m	[kg]	50	63	93	
GST09	m	[kg]	66	79	109	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GST□□-2M VAR / VBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GST03	m	[kg]	6			
GST04	m	[kg]	10	12	18	
GST05	m	[kg]	16	18	22	30
GST06	m	[kg]	23	25	29	38
GST07	m	[kg]			45	53
GST09	m	[kg]				80

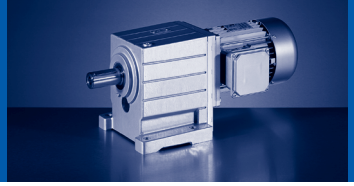
			100C12	100C32	112C22	132C12 132C22	132C32
GST05	m	[kg]	39				
GST06	m	[kg]	46		59		
GST07	m	[kg]	61		74	104	
GST09	m	[kg]	88		101	131	
GST11	m	[kg]	134		146	176	
GST14	m	[kg]			238	265	

GST□□-2M VCR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GST03	m	[kg]	6			
GST04	m	[kg]	10	12	17	
GST05	m	[kg]	14	16	21	29
GST06	m	[kg]	20	22	27	35
GST07	m	[kg]			40	48
GST09	m	[kg]				71

			100C12	100C32	112C22	132C12 132C22	132C32
GST05	m	[kg]	37				
GST06	m	[kg]	44		57		
GST07	m	[kg]	57		70	100	
GST09	m	[kg]	80		92	123	
GST11	m	[kg]	120		131	161	
GST14	m	[kg]			210	237	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GST□□-2M VCK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GST03	m	[kg]	7			
GST04	m	[kg]	11	13	18	
GST05	m	[kg]	16	18	22	30
GST06	m	[kg]	23	25	30	38
GST07	m	[kg]			44	52
GST09	m	[kg]				78

			100C12	100C32	112C22	132C12 132C22	132C32
GST05	m	[kg]	39				
GST06	m	[kg]	47		60		
GST07	m	[kg]	61		74	104	
GST09	m	[kg]	87		99	130	
GST11	m	[kg]	130		142	171	
GST14	m	[kg]			226	253	

GST□□-2M VAL

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GST04	m	[kg]	11	13	19	
GST05	m	[kg]	17	19	24	32
GST06	m	[kg]	26	28	32	41
GST07	m	[kg]			49	57
GST09	m	[kg]				87

			100C12	100C32	112C22	132C12 132C22	132C32
GST05	m	[kg]	40				
GST06	m	[kg]	49		62		
GST07	m	[kg]	65		78	108	
GST09	m	[kg]	95		108	138	
GST11	m	[kg]	145		157	186	
GST14	m	[kg]			254	281	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GST□□-3M VAR / VBR

			063C32 063C42	071C32	071C42	080C32 080C42
GST05	m	[kg]	16	19		
GST06	m	[kg]	26	29		34
GST07	m	[kg]	46	48		53
GST09	m	[kg]	78	80		85
GST11	m	[kg]				139

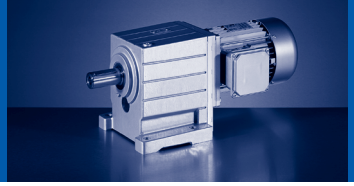
			090C32	100C12	100C32	112C22	132C12 132C22 132C32
GST07	m	[kg]	61	69			
GST09	m	[kg]	93	101		114	
GST11	m	[kg]	147	156		169	198
GST14	m	[kg]	253	262		274	305

GST□□-3M VCR

			063C32 063C42	071C32	071C42	080C32 080C42
GST05	m	[kg]	15	17		
GST06	m	[kg]	24	26		31
GST07	m	[kg]	41	44		48
GST09	m	[kg]	69	71		76
GST11	m	[kg]				124

			090C32	100C12	100C32	112C22	132C12 132C22 132C32
GST07	m	[kg]	56	65			
GST09	m	[kg]	84	93		106	
GST11	m	[kg]	132	141		154	183
GST14	m	[kg]	225	234		246	277

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GST□□-3M VCK

			063C32 063C42	071C32	071C42	080C32 080C42
GST05	m	[kg]	16	19		
GST06	m	[kg]	27	29		34
GST07	m	[kg]	45	48		52
GST09	m	[kg]	76	78		83
GST11	m	[kg]				135

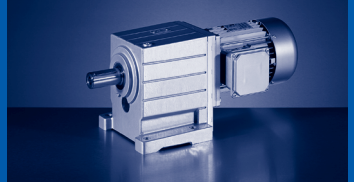
			090C32	100C12	100C32	112C22	132C12 132C22 132C32
GST07	m	[kg]	60	69			
GST09	m	[kg]	91	100		113	
GST11	m	[kg]	143	151		164	194
GST14	m	[kg]	241	249		262	292

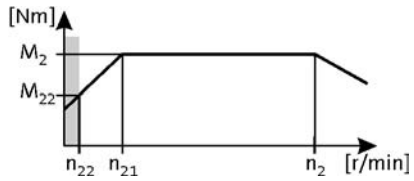
GST□□-3M VAL

			063C32 063C42	071C32	071C42	080C32 080C42
GST05	m	[kg]	18	20		
GST06	m	[kg]	29	32		37
GST07	m	[kg]	50	52		57
GST09	m	[kg]	85	87		92
GST11	m	[kg]				150

			090C32	100C12	100C32	112C22	132C12 132C22 132C32
GST07	m	[kg]	65	73			
GST09	m	[kg]	100	108		121	
GST11	m	[kg]	158	166		179	209
GST14	m	[kg]	269	277		290	320

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).





120 Hz: P_N = 0.55 kW

n_{22} / n_2 = 1 ... 24.0

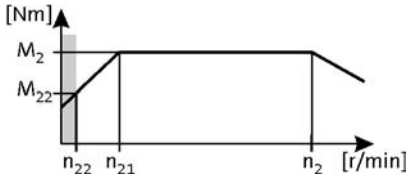
n_1 = 143.3 ... 3440 r/min

n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
70	293	-	1680	2.3	3.0	4.5	2.048	GST04-1M□□□063C32	E84AV□□□5514□□0	112
64	268	-	1536	2.6	3.0	3.9	2.240	GST05-1M□□□063C32	E84AV□□□5514□□0	112
50	210	-	1204	3.3	4.0	4.1	2.857	GST04-1M□□□063C32	E84AV□□□5514□□0	112
41	171	-	983	4.0	5.0	3.6	3.500	GST04-1M□□□063C32	E84AV□□□5514□□0	112
33	137	-	788	4.9	7.0	2.5	4.368	GST03-2M□□□063C32	E84AV□□□5514□□0	118
33	136	-	782	5.0	7.0	2.9	4.400	GST04-1M□□□063C32	E84AV□□□5514□□0	112
28	116	-	663	5.8	8.0	4.5	5.187	GST04-2M□□□063C32	E84AV□□□5514□□0	118
25	106	-	607	6.5	9.0	2.2	5.667	GST04-1M□□□063C32	E84AV□□□5514□□0	112
25	106	-	607	6.5	9.0	3.2	5.667	GST05-1M□□□063C32	E84AV□□□5514□□0	112
22	94	-	538	7.2	10	3.9	6.400	GST05-2M□□□063C32	E84AV□□□5514□□0	118
20	84	-	479	8.2	11	1.8	7.182	GST04-1M□□□063C32	E84AV□□□5514□□0	112
20	82	-	469	8.4	11	2.8	7.333	GST05-1M□□□063C32	E84AV□□□5514□□0	112
20	82	-	469	8.4	11	3.2	7.333	GST06-1M□□□063C32	E84AV□□□5514□□0	112
18	74	-	421	9.2	12	4.5	8.163	GST05-2M□□□063C32	E84AV□□□5514□□0	118
16	67	-	387	10	13	2.4	8.900	GST05-1M□□□063C32	E84AV□□□5514□□0	112
16	67	-	387	10	13	2.8	8.900	GST06-1M□□□063C32	E84AV□□□5514□□0	112
16	67	-	385	10	13	1.9	8.935	GST03-2M□□□063C32	E84AV□□□5514□□0	118
16	67	-	382	10	14	1.0	9.000	GST04-1M□□□063C32	E84AV□□□5514□□0	112
15	61	-	349	11	15	3.4	9.856	GST04-2M□□□063C32	E84AV□□□5514□□0	118
14	60	-	343	11	15	1.8	10.033	GST03-2M□□□063C32	E84AV□□□5514□□0	118
13	54	-	307	13	17	2.7	11.200	GST04-2M□□□063C32	E84AV□□□5514□□0	118
13	53	-	306	13	17	2.2	11.250	GST06-1M□□□063C32	E84AV□□□5514□□0	112
13	53	-	302	13	17	1.2	11.375	GST05-1M□□□063C32	E84AV□□□5514□□0	112
13	53	-	301	13	17	1.6	11.429	GST03-2M□□□063C32	E84AV□□□5514□□0	118
11	48	-	274	14	19	2.8	12.571	GST04-2M□□□063C32	E84AV□□□5514□□0	118
11	47	-	268	14	19	1.5	12.833	GST03-2M□□□063C32	E84AV□□□5514□□0	118
10	42	-	241	16	21	2.2	14.286	GST04-2M□□□063C32	E84AV□□□5514□□0	118
10	42	-	240	16	21	3.2	14.356	GST05-2M□□□063C32	E84AV□□□5514□□0	118
9.7	40	-	232	17	22	1.3	14.836	GST03-2M□□□063C32	E84AV□□□5514□□0	118
9.3	39	-	223	17	23	2.6	15.400	GST04-2M□□□063C32	E84AV□□□5514□□0	118
8.6	36	-	207	19	25	1.4	16.660	GST03-2M□□□063C32	E84AV□□□5514□□0	118
8.2	34	-	197	20	26	2.1	17.500	GST04-2M□□□063C32	E84AV□□□5514□□0	118
7.5	32	-	181	21	28	1.3	19.013	GST03-2M□□□063C32	E84AV□□□5514□□0	118
7.4	31	-	178	22	29	2.1	19.360	GST04-2M□□□063C32	E84AV□□□5514□□0	118
6.7	28	-	161	24	32	1.2	21.350	GST03-2M□□□063C32	E84AV□□□5514□□0	118
6.5	27	-	156	25	33	1.6	22.000	GST04-2M□□□063C32	E84AV□□□5514□□0	118
5.8	24	-	140	28	36	1.1	24.595	GST03-2M□□□063C32	E84AV□□□5514□□0	118
5.8	24	-	138	28	37	1.7	24.933	GST04-2M□□□063C32	E84AV□□□5514□□0	118
5.2	22	-	125	31	41	0.9	27.618	GST03-2M□□□063C32	E84AV□□□5514□□0	118
5.1	21	-	121	32	42	1.3	28.333	GST04-2M□□□063C32	E84AV□□□5514□□0	118
5.1	21	-	121	32	42	3.0	28.333	GST05-2M□□□063C32	E84AV□□□5514□□0	118

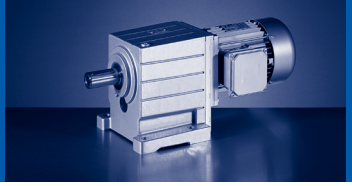
120 Hz: P_N = 0.55 kW

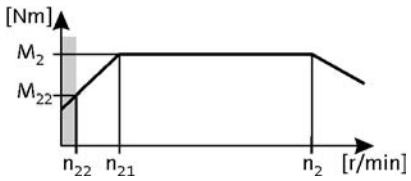
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.3 ... 3440 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
4.5	19	-	109	35	47	1.3	31.600	GST04-2M□□□063C32	E84AV□□□5514□□0	118
4.4	19	-	107	36	48	3.0	32.267	GST05-2M□□□063C32	E84AV□□□5514□□0	118
4.0	17	-	96	40	53	1.0	35.909	GST04-2M□□□063C32	E84AV□□□5514□□0	118
4.0	17	-	95	40	53	2.2	36.267	GST05-3M□□□063C32	E84AV□□□5514□□0	124
3.9	16	-	94	41	54	2.3	36.667	GST05-2M□□□063C32	E84AV□□□5514□□0	118
3.7	15	-	88	44	58	2.5	39.160	GST05-2M□□□063C32	E84AV□□□5514□□0	118
3.7	15	-	88	44	58	3.1	39.160	GST06-2M□□□063C32	E84AV□□□5514□□0	118
3.6	15	-	87	44	59	1.1	39.600	GST04-2M□□□063C32	E84AV□□□5514□□0	118
3.2	14	-	77	50	66	2.2	44.500	GST05-2M□□□063C32	E84AV□□□5514□□0	118
3.2	13	-	76	51	67	0.9	45.000	GST04-2M□□□063C32	E84AV□□□5514□□0	118
3.1	13	-	74	51	68	2.1	46.259	GST05-3M□□□063C32	E84AV□□□5514□□0	124
2.9	12	-	70	56	73	2.8	49.500	GST06-2M□□□063C32	E84AV□□□5514□□0	118
2.9	12	-	69	56	74	1.5	50.050	GST05-2M□□□063C32	E84AV□□□5514□□0	118
2.5	11	-	61	64	84	1.5	56.875	GST05-2M□□□063C32	E84AV□□□5514□□0	118
2.5	11	-	61	63	83	1.8	56.667	GST05-3M□□□063C32	E84AV□□□5514□□0	124
2.6	11	-	61	63	83	2.8	56.250	GST06-2M□□□063C32	E84AV□□□5514□□0	118
2.3	9.5	-	54	70	93	1.5	63.467	GST05-3M□□□063C32	E84AV□□□5514□□0	124
2.0	8.4	-	48	79	104	1.5	71.238	GST05-3M□□□063C32	E84AV□□□5514□□0	124
1.8	7.4	-	43	89	118	1.2	80.952	GST05-3M□□□063C32	E84AV□□□5514□□0	124
1.8	7.4	-	43	89	118	2.7	80.952	GST06-3M□□□063C32	E84AV□□□5514□□0	124
1.6	6.9	-	39	96	127	2.8	87.267	GST06-3M□□□063C32	E84AV□□□5514□□0	124
1.6	6.5	-	38	101	134	1.2	91.746	GST05-3M□□□063C32	E84AV□□□5514□□0	124
1.5	6.1	-	35	110	145	1.0	99.167	GST05-3M□□□063C32	E84AV□□□5514□□0	124
1.5	6.1	-	35	110	145	2.2	99.167	GST06-3M□□□063C32	E84AV□□□5514□□0	124
1.3	5.5	-	31	121	160	2.2	109.707	GST06-3M□□□063C32	E84AV□□□5514□□0	124
1.2	5.2	-	30	128	170	1.0	116.277	GST05-3M□□□063C32	E84AV□□□5514□□0	124
1.2	4.8	-	28	138	182	1.8	124.667	GST06-3M□□□063C32	E84AV□□□5514□□0	124
1.0	4.3	-	24	156	206	1.7	141.289	GST06-3M□□□063C32	E84AV□□□5514□□0	124
0.9	3.8	-	22	175	231	2.9	158.194	GST07-3M□□□063C32	E84AV□□□5514□□0	124
0.9	3.7	-	21	177	234	1.4	160.556	GST06-3M□□□063C32	E84AV□□□5514□□0	124
0.8	3.4	-	19	198	261	1.4	179.067	GST06-3M□□□063C32	E84AV□□□5514□□0	124
0.8	3.3	-	19	199	263	2.6	180.156	GST07-3M□□□063C32	E84AV□□□5514□□0	124
0.7	3.0	-	17	225	297	1.1	203.485	GST06-3M□□□063C32	E84AV□□□5514□□0	124
0.7	2.9	-	17	226	299	2.3	204.722	GST07-3M□□□063C32	E84AV□□□5514□□0	124
0.6	2.6	-	15	256	338	1.1	231.733	GST06-3M□□□063C32	E84AV□□□5514□□0	124
0.6	2.5	-	15	261	345	2.0	236.622	GST07-3M□□□063C32	E84AV□□□5514□□0	124
0.6	2.4	-	14	274	363	1.9	248.458	GST07-3M□□□063C32	E84AV□□□5514□□0	124
0.5	2.2	-	13	297	392	1.7	268.889	GST07-3M□□□063C32	E84AV□□□5514□□0	124
0.4	1.8	-	11	360	476	1.4	326.333	GST07-3M□□□063C32	E84AV□□□5514□□0	124
0.4	1.7	-	9.5	401	530	2.8	363.000	GST09-3M□□□063C32	E84AV□□□5514□□0	124
0.4	1.6	-	9.4	405	536	1.3	367.033	GST07-3M□□□063C32	E84AV□□□5514□□0	124





120 Hz: P_N = 0.55 kW

n_{22} / n_2 = 1 ... 24.0

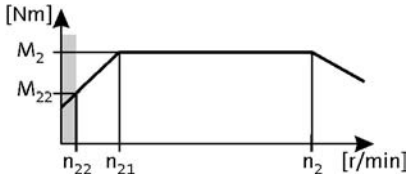
n_1 = 143.3 ... 3440 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.3	1.4	-	8.3	461	609	1.1	417.083	GST07-3M□□□063C32	E84AV□□□5514□□0	124
0.4	1.5	-	8.3	456	602	2.6	412.500	GST09-3M□□□063C32	E84AV□□□5514□□0	124

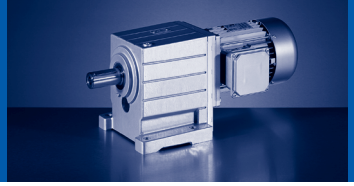
120 Hz: P_N = 0.75 kW

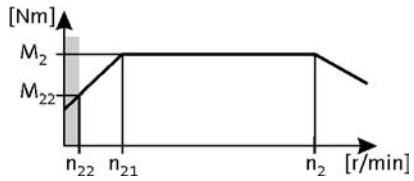
n_{22} / n_2 = 1 ... 24.0

n_1 = 141.7 ... 3400 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
69	293	-	1661	3.2	4.0	3.3	2.048	GST04-1M□□□063C42	E84AV□□□7514□□0	112
63	268	-	1518	3.5	5.0	2.9	2.240	GST05-1M□□□063C42	E84AV□□□7514□□0	112
50	210	-	1190	4.4	6.0	3.0	2.857	GST04-1M□□□063C42	E84AV□□□7514□□0	112
41	171	-	971	5.4	7.0	2.6	3.500	GST04-1M□□□063C42	E84AV□□□7514□□0	112
32	137	-	778	6.7	9.0	1.8	4.368	GST03-2M□□□063C42	E84AV□□□7514□□0	118
32	136	-	773	6.8	9.0	2.1	4.400	GST04-1M□□□063C42	E84AV□□□7514□□0	112
31	132	-	746	7.1	10	2.7	4.556	GST05-1M□□□063C42	E84AV□□□7514□□0	112
27	116	-	655	7.9	11	3.3	5.187	GST04-2M□□□063C42	E84AV□□□7514□□0	118
25	106	-	600	8.8	12	1.6	5.667	GST04-1M□□□063C42	E84AV□□□7514□□0	112
25	106	-	600	8.8	12	2.3	5.667	GST05-1M□□□063C42	E84AV□□□7514□□0	112
22	94	-	531	9.8	13	2.9	6.400	GST05-2M□□□063C42	E84AV□□□7514□□0	118
22	94	-	531	9.8	13	3.2	6.400	GST04-2M□□□063C42	E84AV□□□7514□□0	118
20	84	-	473	11	15	1.3	7.182	GST04-1M□□□063C42	E84AV□□□7514□□0	112
19	82	-	464	11	15	2.1	7.333	GST05-1M□□□063C42	E84AV□□□7514□□0	112
19	82	-	464	11	15	2.3	7.333	GST06-1M□□□063C42	E84AV□□□7514□□0	112
17	74	-	417	13	17	3.3	8.163	GST05-2M□□□063C42	E84AV□□□7514□□0	118
16	67	-	382	14	19	1.7	8.900	GST05-1M□□□063C42	E84AV□□□7514□□0	112
16	67	-	382	14	19	2.0	8.900	GST06-1M□□□063C42	E84AV□□□7514□□0	112
16	67	-	381	14	18	1.4	8.935	GST03-2M□□□063C42	E84AV□□□7514□□0	118
16	67	-	377	14	18	2.6	9.010	GST04-2M□□□063C42	E84AV□□□7514□□0	118
14	61	-	345	15	20	2.4	9.856	GST04-2M□□□063C42	E84AV□□□7514□□0	118
14	60	-	339	15	21	1.3	10.033	GST03-2M□□□063C42	E84AV□□□7514□□0	118
13	54	-	304	17	23	2.0	11.200	GST04-2M□□□063C42	E84AV□□□7514□□0	118
13	54	-	304	17	23	2.9	11.200	GST05-2M□□□063C42	E84AV□□□7514□□0	118
13	53	-	302	18	23	1.6	11.250	GST06-1M□□□063C42	E84AV□□□7514□□0	112
12	53	-	298	18	23	1.2	11.429	GST03-2M□□□063C42	E84AV□□□7514□□0	118
11	48	-	271	19	26	2.0	12.571	GST04-2M□□□063C42	E84AV□□□7514□□0	118
11	47	-	265	20	26	1.1	12.833	GST03-2M□□□063C42	E84AV□□□7514□□0	118
11	46	-	261	20	27	2.7	13.016	GST05-2M□□□063C42	E84AV□□□7514□□0	118
9.9	42	-	238	22	29	1.6	14.286	GST04-2M□□□063C42	E84AV□□□7514□□0	118
9.9	42	-	237	22	29	2.3	14.356	GST05-2M□□□063C42	E84AV□□□7514□□0	118
9.6	40	-	229	23	30	1.0	14.836	GST03-2M□□□063C42	E84AV□□□7514□□0	118
9.2	39	-	221	24	32	1.9	15.400	GST04-2M□□□063C42	E84AV□□□7514□□0	118
8.8	37	-	210	25	33	2.6	16.190	GST05-2M□□□063C42	E84AV□□□7514□□0	118
8.5	36	-	204	26	34	1.0	16.660	GST03-2M□□□063C42	E84AV□□□7514□□0	118
8.1	34	-	194	27	36	1.5	17.500	GST04-2M□□□063C42	E84AV□□□7514□□0	118
7.5	32	-	179	29	39	0.9	19.013	GST03-2M□□□063C42	E84AV□□□7514□□0	118
7.3	31	-	176	30	40	1.5	19.360	GST04-2M□□□063C42	E84AV□□□7514□□0	118
7.1	30	-	170	31	41	3.1	20.044	GST05-2M□□□063C42	E84AV□□□7514□□0	118
6.4	27	-	155	34	45	1.2	22.000	GST04-2M□□□063C42	E84AV□□□7514□□0	118
6.2	26	-	149	35	47	2.7	22.778	GST05-2M□□□063C42	E84AV□□□7514□□0	118





120 Hz: P_N = 0.75 kW

n_{22} / n_2 = 1 ... 24.0

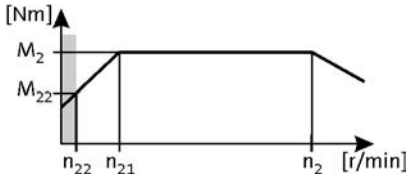
n_1 = 141.7 ... 3400 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
5.7	24	-	136	38	51	1.2	24.933	GST04-2M□□□063C42	E84AV□□□7514□□0	118
5.7	24	-	136	38	51	2.6	24.933	GST05-2M□□□063C42	E84AV□□□7514□□0	118
5.0	21	-	120	43	58	0.9	28.333	GST04-2M□□□063C42	E84AV□□□7514□□0	118
5.0	21	-	120	43	58	2.2	28.333	GST05-2M□□□063C42	E84AV□□□7514□□0	118
4.5	19	-	108	48	65	1.0	31.600	GST04-2M□□□063C42	E84AV□□□7514□□0	118
4.4	19	-	105	49	66	2.2	32.267	GST05-2M□□□063C42	E84AV□□□7514□□0	118
4.4	19	-	105	49	66	2.6	32.267	GST06-2M□□□063C42	E84AV□□□7514□□0	118
3.9	17	-	94	55	73	1.6	36.267	GST05-3M□□□063C42	E84AV□□□7514□□0	124
3.9	16	-	93	56	75	1.7	36.667	GST05-2M□□□063C42	E84AV□□□7514□□0	118
3.9	16	-	93	56	75	2.6	36.667	GST06-2M□□□063C42	E84AV□□□7514□□0	118
3.6	15	-	87	60	80	1.8	39.160	GST05-2M□□□063C42	E84AV□□□7514□□0	118
3.6	15	-	87	60	80	2.3	39.160	GST06-2M□□□063C42	E84AV□□□7514□□0	118
3.2	14	-	76	68	91	1.6	44.500	GST05-2M□□□063C42	E84AV□□□7514□□0	118
3.2	14	-	76	68	91	2.5	44.500	GST06-2M□□□063C42	E84AV□□□7514□□0	118
3.1	13	-	74	70	93	1.5	46.259	GST05-3M□□□063C42	E84AV□□□7514□□0	124
2.9	12	-	69	76	101	2.0	49.500	GST06-2M□□□063C42	E84AV□□□7514□□0	118
2.8	12	-	68	77	102	1.1	50.050	GST05-2M□□□063C42	E84AV□□□7514□□0	118
2.8	12	-	67	77	103	3.0	51.022	GST06-3M□□□063C42	E84AV□□□7514□□0	124
2.6	11	-	63	81	109	3.1	53.900	GST06-3M□□□063C42	E84AV□□□7514□□0	124
2.5	11	-	60	87	116	1.1	56.875	GST05-2M□□□063C42	E84AV□□□7514□□0	118
2.5	11	-	60	85	114	1.3	56.667	GST05-3M□□□063C42	E84AV□□□7514□□0	124
2.5	11	-	60	86	115	2.0	56.250	GST06-2M□□□063C42	E84AV□□□7514□□0	118
2.2	9.5	-	54	96	128	1.1	63.467	GST05-3M□□□063C42	E84AV□□□7514□□0	124
2.1	8.9	-	50	102	136	2.6	67.760	GST06-3M□□□063C42	E84AV□□□7514□□0	124
2.0	8.6	-	49	106	141	2.4	70.156	GST06-3M□□□063C42	E84AV□□□7514□□0	124
2.0	8.4	-	48	107	143	1.1	71.238	GST05-3M□□□063C42	E84AV□□□7514□□0	124
1.8	7.4	-	42	122	163	2.0	80.952	GST06-3M□□□063C42	E84AV□□□7514□□0	124
1.6	6.9	-	39	131	176	2.0	87.267	GST06-3M□□□063C42	E84AV□□□7514□□0	124
1.4	6.1	-	34	149	200	1.6	99.167	GST06-3M□□□063C42	E84AV□□□7514□□0	124
1.3	5.5	-	31	165	221	1.6	109.707	GST06-3M□□□063C42	E84AV□□□7514□□0	124
1.3	5.4	-	30	169	225	3.0	111.915	GST07-3M□□□063C42	E84AV□□□7514□□0	124
1.1	4.8	-	27	188	251	1.3	124.667	GST06-3M□□□063C42	E84AV□□□7514□□0	124
1.1	4.7	-	27	192	256	2.7	127.176	GST07-3M□□□063C42	E84AV□□□7514□□0	124
1.0	4.3	-	24	213	284	1.3	141.289	GST06-3M□□□063C42	E84AV□□□7514□□0	124
1.0	4.3	-	24	210	280	2.4	139.211	GST07-3M□□□063C42	E84AV□□□7514□□0	124
0.9	3.8	-	22	238	319	2.1	158.194	GST07-3M□□□063C42	E84AV□□□7514□□0	124
0.9	3.7	-	21	242	323	1.0	160.556	GST06-3M□□□063C42	E84AV□□□7514□□0	124
0.8	3.4	-	19	270	361	1.0	179.067	GST06-3M□□□063C42	E84AV□□□7514□□0	124
0.8	3.3	-	19	271	363	1.9	180.156	GST07-3M□□□063C42	E84AV□□□7514□□0	124
0.8	3.3	-	19	275	368	2.9	182.844	GST09-3M□□□063C42	E84AV□□□7514□□0	124
0.7	2.9	-	17	308	412	1.7	204.722	GST07-3M□□□063C42	E84AV□□□7514□□0	124

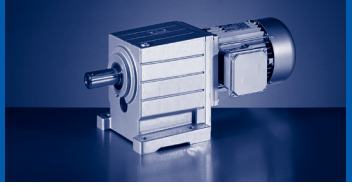
120 Hz: P_N = 0.75 kW

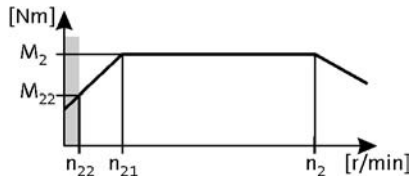
n_{22} / n_2 = 1 ... 24.0

n_1 = 141.7 ... 3400 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.7	2.9	-	16	313	418	2.9	207.778	GST09-3M□□□063C42	E84AV□□□7514□□0	124
0.6	2.5	-	14	356	476	1.4	236.622	GST07-3M□□□063C42	E84AV□□□7514□□0	124
0.6	2.4	-	14	374	500	1.4	248.458	GST07-3M□□□063C42	E84AV□□□7514□□0	124
0.6	2.4	-	14	380	508	2.5	252.167	GST09-3M□□□063C42	E84AV□□□7514□□0	124
0.6	2.5	-	14	356	476	2.9	236.622	GST09-3M□□□063C42	E84AV□□□7514□□0	124
0.5	2.2	-	13	405	541	1.3	268.889	GST07-3M□□□063C42	E84AV□□□7514□□0	124
0.5	2.2	-	13	405	541	2.9	268.889	GST09-3M□□□063C42	E84AV□□□7514□□0	124
0.4	1.8	-	10	491	657	1.0	326.333	GST07-3M□□□063C42	E84AV□□□7514□□0	124
0.4	1.8	-	10	491	657	2.4	326.333	GST09-3M□□□063C42	E84AV□□□7514□□0	124
0.4	1.7	-	9.4	547	731	2.0	363.000	GST09-3M□□□063C42	E84AV□□□7514□□0	124
0.4	1.6	-	9.3	553	739	0.9	367.033	GST07-3M□□□063C42	E84AV□□□7514□□0	124
0.3	1.5	-	8.2	621	830	1.9	412.500	GST09-3M□□□063C42	E84AV□□□7514□□0	124





120 Hz: P_N = 1.10 kW

n_{22} / n_2 = 1 ... 24.0

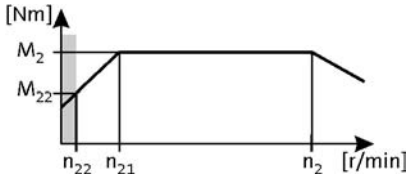
n_1 = 145.4 ... 3490 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
71	293	-	1704	4.7	6.0	2.8	2.048	GST04-1M□□□071C32	E84AV□□□1124□□0	112
65	268	-	1558	5.1	7.0	2.8	2.240	GST04-1M□□□071C32	E84AV□□□1124□□0	112
51	210	-	1222	6.5	9.0	2.2	2.857	GST04-1M□□□071C32	E84AV□□□1124□□0	112
42	171	-	997	8.0	10	1.8	3.500	GST04-1M□□□071C32	E84AV□□□1124□□0	112
33	136	-	793	10	13	1.4	4.400	GST04-1M□□□071C32	E84AV□□□1124□□0	112
32	132	-	766	10	14	3.0	4.556	GST05-1M□□□071C32	E84AV□□□1124□□0	112
28	116	-	673	12	15	2.5	5.187	GST04-2M□□□071C32	E84AV□□□1124□□0	118
26	106	-	616	13	17	1.1	5.667	GST04-1M□□□071C32	E84AV□□□1124□□0	112
26	106	-	616	13	17	2.4	5.667	GST05-1M□□□071C32	E84AV□□□1124□□0	112
26	106	-	616	13	17	3.0	5.667	GST06-1M□□□071C32	E84AV□□□1124□□0	112
25	103	-	597	13	17	2.4	5.850	GST04-2M□□□071C32	E84AV□□□1124□□0	118
23	94	-	545	14	19	2.2	6.400	GST04-2M□□□071C32	E84AV□□□1124□□0	118
20	82	-	476	17	22	1.6	7.333	GST05-1M□□□071C32	E84AV□□□1124□□0	112
20	82	-	476	17	22	2.7	7.333	GST06-1M□□□071C32	E84AV□□□1124□□0	112
18	74	-	428	18	24	3.6	8.163	GST05-2M□□□071C32	E84AV□□□1124□□0	118
16	67	-	392	20	26	1.2	8.900	GST05-1M□□□071C32	E84AV□□□1124□□0	112
16	67	-	392	20	26	2.2	8.900	GST06-1M□□□071C32	E84AV□□□1124□□0	112
16	67	-	387	20	26	1.8	9.010	GST04-2M□□□071C32	E84AV□□□1124□□0	118
15	61	-	354	22	29	1.7	9.856	GST04-2M□□□071C32	E84AV□□□1124□□0	118
15	60	-	349	22	29	3.2	10.000	GST05-2M□□□071C32	E84AV□□□1124□□0	118
13	54	-	312	25	33	1.4	11.200	GST04-2M□□□071C32	E84AV□□□1124□□0	118
13	54	-	312	25	33	2.9	11.200	GST05-2M□□□071C32	E84AV□□□1124□□0	118
13	53	-	310	26	33	1.3	11.250	GST06-1M□□□071C32	E84AV□□□1124□□0	112
12	48	-	278	28	37	1.4	12.571	GST04-2M□□□071C32	E84AV□□□1124□□0	118
11	46	-	268	29	38	2.7	13.016	GST05-2M□□□071C32	E84AV□□□1124□□0	118
10	42	-	244	32	42	1.1	14.286	GST04-2M□□□071C32	E84AV□□□1124□□0	118
10	42	-	243	32	42	2.5	14.356	GST05-2M□□□071C32	E84AV□□□1124□□0	118
9.4	39	-	227	35	45	1.3	15.400	GST04-2M□□□071C32	E84AV□□□1124□□0	118
9.0	37	-	216	36	47	2.7	16.190	GST05-2M□□□071C32	E84AV□□□1124□□0	118
8.3	34	-	199	39	51	1.0	17.500	GST04-2M□□□071C32	E84AV□□□1124□□0	118
8.3	34	-	199	39	51	2.4	17.500	GST05-2M□□□071C32	E84AV□□□1124□□0	118
7.5	31	-	180	43	57	1.1	19.360	GST04-2M□□□071C32	E84AV□□□1124□□0	118
7.3	30	-	174	45	59	2.3	20.044	GST05-2M□□□071C32	E84AV□□□1124□□0	118
6.4	26	-	153	51	67	1.9	22.778	GST05-2M□□□071C32	E84AV□□□1124□□0	118
5.8	24	-	140	56	73	1.9	24.933	GST05-2M□□□071C32	E84AV□□□1124□□0	118
5.1	21	-	123	64	83	1.5	28.333	GST05-2M□□□071C32	E84AV□□□1124□□0	118
4.5	19	-	108	72	94	1.5	32.267	GST05-2M□□□071C32	E84AV□□□1124□□0	118
4.5	19	-	108	72	94	3.1	32.267	GST06-2M□□□071C32	E84AV□□□1124□□0	118
4.0	17	-	96	80	104	1.1	36.267	GST05-3M□□□071C32	E84AV□□□1124□□0	124
4.0	16	-	95	82	107	1.2	36.667	GST05-2M□□□071C32	E84AV□□□1124□□0	118
4.0	16	-	95	82	107	2.6	36.667	GST06-2M□□□071C32	E84AV□□□1124□□0	118

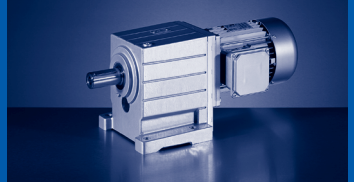
120 Hz: P_N = 1.10 kW

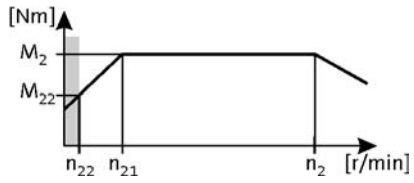
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.4 ... 3490 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
3.7	15	-	89	88	114	1.2	39.160	GST05-2M□□□071C32	E84AV□□□1124□□0	118
3.7	15	-	89	87	113	2.4	39.200	GST06-3M□□□071C32	E84AV□□□1124□□0	124
3.7	15	-	89	88	114	2.5	39.160	GST06-2M□□□071C32	E84AV□□□1124□□0	118
3.3	14	-	79	97	127	2.5	44.000	GST06-3M□□□071C32	E84AV□□□1124□□0	124
3.3	14	-	78	100	130	1.1	44.500	GST05-2M□□□071C32	E84AV□□□1124□□0	118
3.3	14	-	78	100	130	2.4	44.500	GST06-2M□□□071C32	E84AV□□□1124□□0	118
3.1	13	-	75	102	133	1.0	46.259	GST05-3M□□□071C32	E84AV□□□1124□□0	124
2.9	12	-	71	111	145	1.6	49.500	GST06-2M□□□071C32	E84AV□□□1124□□0	118
2.9	12	-	68	113	147	2.1	51.022	GST06-3M□□□071C32	E84AV□□□1124□□0	124
2.7	11	-	65	119	155	2.1	53.900	GST06-3M□□□071C32	E84AV□□□1124□□0	124
2.6	11	-	62	125	163	0.9	56.667	GST05-3M□□□071C32	E84AV□□□1124□□0	124
2.6	11	-	62	126	164	1.6	56.250	GST06-2M□□□071C32	E84AV□□□1124□□0	118
2.2	8.9	-	52	150	195	1.8	67.760	GST06-3M□□□071C32	E84AV□□□1124□□0	124
2.1	8.6	-	50	155	202	1.7	70.156	GST06-3M□□□071C32	E84AV□□□1124□□0	124
1.8	7.5	-	44	176	229	2.9	79.762	GST07-3M□□□071C32	E84AV□□□1124□□0	124
1.8	7.4	-	43	179	233	1.4	80.952	GST06-3M□□□071C32	E84AV□□□1124□□0	124
1.7	7.0	-	41	190	247	2.7	85.983	GST07-3M□□□071C32	E84AV□□□1124□□0	124
1.7	6.9	-	40	193	251	1.4	87.267	GST06-3M□□□071C32	E84AV□□□1124□□0	124
1.5	6.1	-	36	216	281	2.4	97.708	GST07-3M□□□071C32	E84AV□□□1124□□0	124
1.5	6.1	-	35	219	285	1.1	99.167	GST06-3M□□□071C32	E84AV□□□1124□□0	124
1.3	5.5	-	32	242	316	1.1	109.707	GST06-3M□□□071C32	E84AV□□□1124□□0	124
1.3	5.4	-	31	247	322	2.1	111.915	GST07-3M□□□071C32	E84AV□□□1124□□0	124
1.1	4.7	-	27	281	366	1.8	127.176	GST07-3M□□□071C32	E84AV□□□1124□□0	124
1.0	4.3	-	25	308	400	1.7	139.211	GST07-3M□□□071C32	E84AV□□□1124□□0	124
0.9	3.8	-	22	349	455	1.5	158.194	GST07-3M□□□071C32	E84AV□□□1124□□0	124
0.8	3.3	-	19	398	518	1.3	180.156	GST07-3M□□□071C32	E84AV□□□1124□□0	124
0.8	3.3	-	19	404	526	2.9	182.844	GST09-3M□□□071C32	E84AV□□□1124□□0	124
0.7	2.9	-	17	452	589	1.1	204.722	GST07-3M□□□071C32	E84AV□□□1124□□0	124
0.7	2.9	-	17	459	598	2.6	207.778	GST09-3M□□□071C32	E84AV□□□1124□□0	124
0.6	2.5	-	15	523	681	1.0	236.622	GST07-3M□□□071C32	E84AV□□□1124□□0	124
0.6	2.5	-	15	523	681	2.3	236.622	GST09-3M□□□071C32	E84AV□□□1124□□0	124
0.6	2.4	-	14	549	715	0.9	248.458	GST07-3M□□□071C32	E84AV□□□1124□□0	124
0.6	2.4	-	14	557	725	2.1	252.167	GST09-3M□□□071C32	E84AV□□□1124□□0	124
0.5	2.2	-	13	594	773	2.0	268.889	GST09-3M□□□071C32	E84AV□□□1124□□0	124
0.5	1.8	-	11	721	939	1.6	326.333	GST09-3M□□□071C32	E84AV□□□1124□□0	124
0.4	1.7	-	9.6	802	1044	1.5	363.000	GST09-3M□□□071C32	E84AV□□□1124□□0	124
0.4	1.5	-	8.5	911	1187	1.3	412.500	GST09-3M□□□071C32	E84AV□□□1124□□0	124





120 Hz: P_N = 1.50 kW

n_{22} / n_2 = 1 ... 24.0

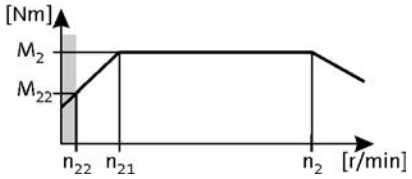
n_1 = 143.8 ... 3450 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
70	293	-	1685	6.4	8.0	2.1	2.048	GST04-1M□□□071C42	E84AV□□□1524□□0	112
70	293	-	1685	6.4	8.0	3.1	2.048	GST05-1M□□□071C42	E84AV□□□1524□□0	112
64	268	-	1540	7.0	9.0	2.0	2.240	GST04-1M□□□071C42	E84AV□□□1524□□0	112
64	268	-	1540	7.0	9.0	3.1	2.240	GST05-1M□□□071C42	E84AV□□□1524□□0	112
50	210	-	1208	8.9	12	1.6	2.857	GST04-1M□□□071C42	E84AV□□□1524□□0	112
50	210	-	1208	8.9	12	2.9	2.857	GST05-1M□□□071C42	E84AV□□□1524□□0	112
50	210	-	1208	8.9	12	3.1	2.857	GST06-1M□□□071C42	E84AV□□□1524□□0	112
41	171	-	986	11	14	1.3	3.500	GST04-1M□□□071C42	E84AV□□□1524□□0	112
41	171	-	986	11	14	2.6	3.500	GST05-1M□□□071C42	E84AV□□□1524□□0	112
33	136	-	784	14	18	1.1	4.400	GST04-1M□□□071C42	E84AV□□□1524□□0	112
32	132	-	757	14	19	2.2	4.556	GST05-1M□□□071C42	E84AV□□□1524□□0	112
32	132	-	757	14	19	2.6	4.556	GST06-1M□□□071C42	E84AV□□□1524□□0	112
28	116	-	665	16	21	1.8	5.187	GST04-2M□□□071C42	E84AV□□□1524□□0	118
28	116	-	665	16	21	3.1	5.187	GST05-2M□□□071C42	E84AV□□□1524□□0	118
25	106	-	609	18	23	1.8	5.667	GST05-1M□□□071C42	E84AV□□□1524□□0	112
25	106	-	609	18	23	2.2	5.667	GST06-1M□□□071C42	E84AV□□□1524□□0	112
25	103	-	590	18	24	1.7	5.850	GST04-2M□□□071C42	E84AV□□□1524□□0	118
25	103	-	590	18	24	3.1	5.850	GST05-2M□□□071C42	E84AV□□□1524□□0	118
23	94	-	539	20	26	1.6	6.400	GST04-2M□□□071C42	E84AV□□□1524□□0	118
23	94	-	539	20	26	3.1	6.400	GST05-2M□□□071C42	E84AV□□□1524□□0	118
20	83	-	477	22	29	2.8	7.238	GST05-2M□□□071C42	E84AV□□□1524□□0	118
20	82	-	471	23	30	1.2	7.333	GST05-1M□□□071C42	E84AV□□□1524□□0	112
20	82	-	471	23	30	2.0	7.333	GST06-1M□□□071C42	E84AV□□□1524□□0	112
18	74	-	423	25	33	2.7	8.163	GST05-2M□□□071C42	E84AV□□□1524□□0	118
18	74	-	423	25	33	3.1	8.163	GST06-2M□□□071C42	E84AV□□□1524□□0	118
16	67	-	388	28	36	1.6	8.900	GST06-1M□□□071C42	E84AV□□□1524□□0	112
16	67	-	383	28	36	1.3	9.010	GST04-2M□□□071C42	E84AV□□□1524□□0	118
16	67	-	383	28	36	2.5	9.010	GST05-2M□□□071C42	E84AV□□□1524□□0	118
15	61	-	350	30	40	1.2	9.856	GST04-2M□□□071C42	E84AV□□□1524□□0	118
14	60	-	345	31	40	2.3	10.000	GST05-2M□□□071C42	E84AV□□□1524□□0	118
13	54	-	308	34	45	1.0	11.200	GST04-2M□□□071C42	E84AV□□□1524□□0	118
13	54	-	308	34	45	2.1	11.200	GST05-2M□□□071C42	E84AV□□□1524□□0	118
13	53	-	307	35	46	0.9	11.250	GST06-1M□□□071C42	E84AV□□□1524□□0	112
11	48	-	274	38	51	1.0	12.571	GST04-2M□□□071C42	E84AV□□□1524□□0	118
11	48	-	274	38	51	3.1	12.571	GST06-2M□□□071C42	E84AV□□□1524□□0	118
11	46	-	265	40	52	2.0	13.016	GST05-2M□□□071C42	E84AV□□□1524□□0	118
10	42	-	242	44	58	3.1	14.286	GST06-2M□□□071C42	E84AV□□□1524□□0	118
10	42	-	240	44	58	1.8	14.356	GST05-2M□□□071C42	E84AV□□□1524□□0	118
9.3	39	-	224	47	62	1.0	15.400	GST04-2M□□□071C42	E84AV□□□1524□□0	118
8.9	37	-	213	50	65	2.0	16.190	GST05-2M□□□071C42	E84AV□□□1524□□0	118
8.2	34	-	197	54	71	1.7	17.500	GST05-2M□□□071C42	E84AV□□□1524□□0	118

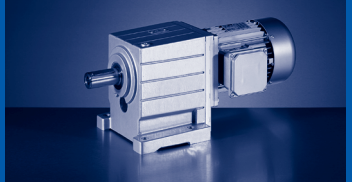
120 Hz: P_N = 1.50 kW

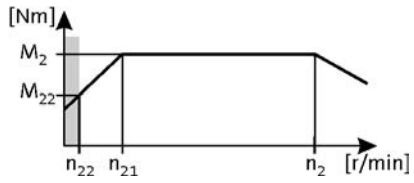
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.8 ... 3450 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
7.2	30	-	172	61	81	1.7	20.044	GST05-2M□□□071C42	E84AV□□□1524□□0	118
7.2	30	-	172	61	81	2.9	20.044	GST06-2M□□□071C42	E84AV□□□1524□□0	118
6.3	26	-	152	70	92	1.4	22.778	GST05-2M□□□071C42	E84AV□□□1524□□0	118
6.3	26	-	152	70	92	2.9	22.778	GST06-2M□□□071C42	E84AV□□□1524□□0	118
5.8	24	-	138	76	100	1.4	24.933	GST05-2M□□□071C42	E84AV□□□1524□□0	118
5.8	24	-	138	76	100	2.4	24.933	GST06-2M□□□071C42	E84AV□□□1524□□0	118
5.1	21	-	122	87	114	1.1	28.333	GST05-2M□□□071C42	E84AV□□□1524□□0	118
5.1	21	-	122	87	114	2.4	28.333	GST06-2M□□□071C42	E84AV□□□1524□□0	118
4.5	19	-	107	99	130	1.1	32.267	GST05-2M□□□071C42	E84AV□□□1524□□0	118
4.5	19	-	107	99	130	2.2	32.267	GST06-2M□□□071C42	E84AV□□□1524□□0	118
3.9	16	-	94	112	148	1.9	36.667	GST06-2M□□□071C42	E84AV□□□1524□□0	118
3.7	15	-	88	120	158	0.9	39.160	GST05-2M□□□071C42	E84AV□□□1524□□0	118
3.7	15	-	88	120	158	1.8	39.160	GST06-2M□□□071C42	E84AV□□□1524□□0	118
3.7	15	-	88	118	156	1.8	39.200	GST06-3M□□□071C42	E84AV□□□1524□□0	124
3.2	14	-	78	136	179	1.7	44.500	GST06-2M□□□071C42	E84AV□□□1524□□0	118
3.3	14	-	78	133	175	1.8	44.000	GST06-3M□□□071C42	E84AV□□□1524□□0	124
3.3	14	-	78	133	175	3.2	44.000	GST07-3M□□□071C42	E84AV□□□1524□□0	124
2.9	12	-	70	151	199	1.2	49.500	GST06-2M□□□071C42	E84AV□□□1524□□0	118
2.8	12	-	68	154	202	1.5	51.022	GST06-3M□□□071C42	E84AV□□□1524□□0	124
2.7	11	-	64	162	214	1.6	53.900	GST06-3M□□□071C42	E84AV□□□1524□□0	124
2.7	11	-	64	162	214	3.2	53.900	GST07-3M□□□071C42	E84AV□□□1524□□0	124
2.6	11	-	61	172	227	1.2	56.250	GST06-2M□□□071C42	E84AV□□□1524□□0	118
2.2	9.2	-	53	196	258	2.6	65.079	GST07-3M□□□071C42	E84AV□□□1524□□0	124
2.1	8.9	-	51	204	269	1.3	67.760	GST06-3M□□□071C42	E84AV□□□1524□□0	124
2.1	8.6	-	49	211	278	1.2	70.156	GST06-3M□□□071C42	E84AV□□□1524□□0	124
2.1	8.6	-	49	211	278	2.4	70.156	GST07-3M□□□071C42	E84AV□□□1524□□0	124
1.8	7.4	-	43	244	321	1.0	80.952	GST06-3M□□□071C42	E84AV□□□1524□□0	124
1.8	7.5	-	43	240	317	2.1	79.762	GST07-3M□□□071C42	E84AV□□□1524□□0	124
1.7	6.9	-	40	263	346	1.0	87.267	GST06-3M□□□071C42	E84AV□□□1524□□0	124
1.7	7.0	-	40	259	341	2.0	85.983	GST07-3M□□□071C42	E84AV□□□1524□□0	124
1.5	6.4	-	37	282	371	3.2	93.541	GST09-3M□□□071C42	E84AV□□□1524□□0	124
1.5	6.1	-	35	294	388	1.7	97.708	GST07-3M□□□071C42	E84AV□□□1524□□0	124
1.3	5.4	-	31	337	444	1.5	111.915	GST07-3M□□□071C42	E84AV□□□1524□□0	124
1.3	5.3	-	30	342	451	3.2	113.585	GST09-3M□□□071C42	E84AV□□□1524□□0	124
1.1	4.7	-	27	383	505	1.3	127.176	GST07-3M□□□071C42	E84AV□□□1524□□0	124
1.1	4.7	-	27	389	512	3.0	129.074	GST09-3M□□□071C42	E84AV□□□1524□□0	124
1.0	4.3	-	25	419	552	1.2	139.211	GST07-3M□□□071C42	E84AV□□□1524□□0	124
1.0	4.3	-	24	426	561	2.7	141.289	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.9	3.8	-	22	476	628	1.1	158.194	GST07-3M□□□071C42	E84AV□□□1524□□0	124
0.9	3.7	-	22	484	637	2.4	160.556	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.8	3.3	-	19	543	715	0.9	180.156	GST07-3M□□□071C42	E84AV□□□1524□□0	124





120 Hz: P_N = 1.50 kW

n_{22} / n_2 = 1 ... 24.0

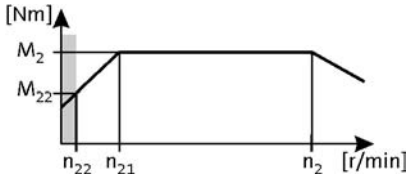
n_1 = 143.8 ... 3450 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.8	3.3	-	19	551	726	2.1	182.844	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.7	2.9	-	17	626	824	1.9	207.778	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.6	2.5	-	15	713	939	1.6	236.622	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.6	2.4	-	14	760	1001	1.5	252.167	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.5	2.2	-	13	810	1067	1.5	268.889	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.4	1.8	-	11	983	1295	1.2	326.333	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.4	1.7	-	9.5	1093	1440	1.1	363.000	GST09-3M□□□071C42	E84AV□□□1524□□0	124
0.4	1.5	-	8.4	1242	1637	0.9	412.500	GST09-3M□□□071C42	E84AV□□□1524□□0	124

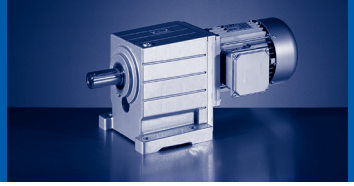
120 Hz: P_N = 2.20 kW

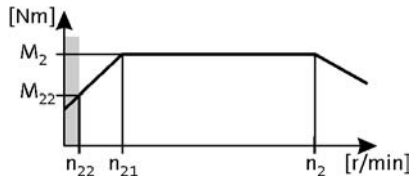
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.8 ... 3500 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
71	293	-	1709	9.1	12	1.4	2.048	GST04-1M□□□080C32	E84AV□□□2224□□0	112
65	268	-	1563	9.9	13	1.4	2.240	GST04-1M□□□080C32	E84AV□□□2224□□0	112
65	268	-	1563	9.9	13	3.0	2.240	GST05-1M□□□080C32	E84AV□□□2224□□0	112
51	210	-	1225	13	17	1.1	2.857	GST04-1M□□□080C32	E84AV□□□2224□□0	112
51	210	-	1225	13	17	2.4	2.857	GST05-1M□□□080C32	E84AV□□□2224□□0	112
42	171	-	1000	16	21	0.9	3.500	GST04-1M□□□080C32	E84AV□□□2224□□0	112
42	171	-	1000	16	21	2.0	3.500	GST05-1M□□□080C32	E84AV□□□2224□□0	112
32	132	-	768	20	27	1.5	4.556	GST05-1M□□□080C32	E84AV□□□2224□□0	112
32	132	-	768	20	27	2.9	4.556	GST06-1M□□□080C32	E84AV□□□2224□□0	112
28	116	-	675	23	30	1.2	5.187	GST04-2M□□□080C32	E84AV□□□2224□□0	118
28	116	-	675	23	30	2.2	5.187	GST05-2M□□□080C32	E84AV□□□2224□□0	118
26	108	-	627	25	33	2.9	5.583	GST07-1M□□□080C32	E84AV□□□2224□□0	112
26	106	-	618	25	34	1.2	5.667	GST05-1M□□□080C32	E84AV□□□2224□□0	112
26	106	-	618	25	34	2.4	5.667	GST06-1M□□□080C32	E84AV□□□2224□□0	112
25	103	-	598	26	34	1.2	5.850	GST04-2M□□□080C32	E84AV□□□2224□□0	118
25	103	-	598	26	34	2.2	5.850	GST05-2M□□□080C32	E84AV□□□2224□□0	118
23	94	-	547	28	37	1.1	6.400	GST04-2M□□□080C32	E84AV□□□2224□□0	118
23	94	-	547	28	37	2.1	6.400	GST05-2M□□□080C32	E84AV□□□2224□□0	118
20	83	-	484	32	42	1.9	7.238	GST05-2M□□□080C32	E84AV□□□2224□□0	118
20	82	-	477	33	43	1.7	7.333	GST06-1M□□□080C32	E84AV□□□2224□□0	112
20	82	-	477	33	43	2.7	7.333	GST07-1M□□□080C32	E84AV□□□2224□□0	112
18	74	-	429	36	48	1.8	8.163	GST05-2M□□□080C32	E84AV□□□2224□□0	118
16	67	-	393	39	53	1.2	8.900	GST06-1M□□□080C32	E84AV□□□2224□□0	112
16	67	-	393	39	53	2.2	8.900	GST07-1M□□□080C32	E84AV□□□2224□□0	112
16	67	-	389	39	53	0.9	9.010	GST04-2M□□□080C32	E84AV□□□2224□□0	118
16	67	-	389	39	53	1.7	9.010	GST05-2M□□□080C32	E84AV□□□2224□□0	118
15	60	-	350	44	58	1.6	10.000	GST05-2M□□□080C32	E84AV□□□2224□□0	118
13	54	-	313	49	65	1.5	11.200	GST05-2M□□□080C32	E84AV□□□2224□□0	118
13	54	-	313	49	65	3.2	11.200	GST06-2M□□□080C32	E84AV□□□2224□□0	118
13	53	-	311	50	67	1.3	11.250	GST07-1M□□□080C32	E84AV□□□2224□□0	112
12	48	-	278	55	73	3.0	12.571	GST06-2M□□□080C32	E84AV□□□2224□□0	118
11	46	-	269	57	76	1.4	13.016	GST05-2M□□□080C32	E84AV□□□2224□□0	118
10	42	-	245	62	83	2.8	14.286	GST06-2M□□□080C32	E84AV□□□2224□□0	118
10	42	-	244	63	84	1.3	14.356	GST05-2M□□□080C32	E84AV□□□2224□□0	118
9.5	39	-	227	67	90	3.0	15.400	GST06-2M□□□080C32	E84AV□□□2224□□0	118
9.0	37	-	216	71	94	1.3	16.190	GST05-2M□□□080C32	E84AV□□□2224□□0	118
8.3	34	-	200	76	102	1.2	17.500	GST05-2M□□□080C32	E84AV□□□2224□□0	118
8.3	34	-	200	76	102	2.6	17.500	GST06-2M□□□080C32	E84AV□□□2224□□0	118
7.3	30	-	175	88	117	1.2	20.044	GST05-2M□□□080C32	E84AV□□□2224□□0	118
7.3	30	-	175	88	117	2.6	20.044	GST06-2M□□□080C32	E84AV□□□2224□□0	118
6.4	26	-	154	99	133	0.9	22.778	GST05-2M□□□080C32	E84AV□□□2224□□0	118





120 Hz: P_N = 2.20 kW

n_{22} / n_2 = 1 ... 24.0

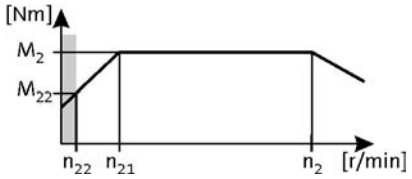
n_1 = 145.8 ... 3500 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
6.4	26	-	154	99	133	2.0	22.778	GST06-2M□□□080C32	E84AV□□□2224□□0	118
5.9	24	-	140	109	145	1.0	24.933	GST05-2M□□□080C32	E84AV□□□2224□□0	118
5.9	24	-	140	109	145	2.1	24.933	GST06-2M□□□080C32	E84AV□□□2224□□0	118
5.2	21	-	124	124	165	1.6	28.333	GST06-2M□□□080C32	E84AV□□□2224□□0	118
4.5	19	-	109	141	188	1.7	32.267	GST06-2M□□□080C32	E84AV□□□2224□□0	118
4.5	19	-	109	141	188	3.1	32.267	GST07-2M□□□080C32	E84AV□□□2224□□0	118
4.0	16	-	96	160	214	1.3	36.667	GST06-2M□□□080C32	E84AV□□□2224□□0	118
4.0	16	-	96	160	214	2.8	36.667	GST07-2M□□□080C32	E84AV□□□2224□□0	118
3.7	15	-	89	169	225	1.2	39.200	GST06-3M□□□080C32	E84AV□□□2224□□0	124
3.7	15	-	89	171	228	1.4	39.160	GST06-2M□□□080C32	E84AV□□□2224□□0	118
3.7	15	-	89	171	228	2.4	39.160	GST07-2M□□□080C32	E84AV□□□2224□□0	118
3.7	15	-	89	169	225	2.6	39.200	GST07-3M□□□080C32	E84AV□□□2224□□0	124
3.3	14	-	80	189	252	1.3	44.000	GST06-3M□□□080C32	E84AV□□□2224□□0	124
3.3	14	-	80	189	252	2.7	44.000	GST07-3M□□□080C32	E84AV□□□2224□□0	124
3.3	14	-	79	194	259	1.2	44.500	GST06-2M□□□080C32	E84AV□□□2224□□0	118
3.3	14	-	79	194	259	2.6	44.500	GST07-2M□□□080C32	E84AV□□□2224□□0	118
3.0	12	-	71	216	288	1.6	49.500	GST07-2M□□□080C32	E84AV□□□2224□□0	118
2.9	12	-	69	219	293	1.1	51.022	GST06-3M□□□080C32	E84AV□□□2224□□0	124
2.9	12	-	69	219	293	2.3	51.022	GST07-3M□□□080C32	E84AV□□□2224□□0	124
2.7	11	-	65	232	309	1.1	53.900	GST06-3M□□□080C32	E84AV□□□2224□□0	124
2.7	11	-	65	232	309	2.2	53.900	GST07-3M□□□080C32	E84AV□□□2224□□0	124
2.6	11	-	62	246	328	1.6	56.250	GST07-2M□□□080C32	E84AV□□□2224□□0	118
2.2	9.2	-	54	280	373	1.8	65.079	GST07-3M□□□080C32	E84AV□□□2224□□0	124
2.1	8.6	-	50	302	403	1.7	70.156	GST07-3M□□□080C32	E84AV□□□2224□□0	124
1.8	7.5	-	44	343	458	1.5	79.762	GST07-3M□□□080C32	E84AV□□□2224□□0	124
1.8	7.4	-	43	351	469	3.2	81.667	GST09-3M□□□080C32	E84AV□□□2224□□0	124
1.7	7.0	-	41	370	493	1.4	85.983	GST07-3M□□□080C32	E84AV□□□2224□□0	124
1.6	6.4	-	37	402	537	2.9	93.541	GST09-3M□□□080C32	E84AV□□□2224□□0	124
1.5	6.1	-	36	420	561	1.2	97.708	GST07-3M□□□080C32	E84AV□□□2224□□0	124
1.5	6.1	-	35	427	569	2.7	99.167	GST09-3M□□□080C32	E84AV□□□2224□□0	124
1.3	5.4	-	31	481	642	1.0	111.915	GST07-3M□□□080C32	E84AV□□□2224□□0	124
1.3	5.3	-	31	489	652	2.4	113.585	GST09-3M□□□080C32	E84AV□□□2224□□0	124
1.2	4.7	-	28	547	730	0.9	127.176	GST07-3M□□□080C32	E84AV□□□2224□□0	124
1.1	4.7	-	27	555	741	2.1	129.074	GST09-3M□□□080C32	E84AV□□□2224□□0	124
1.0	4.3	-	25	608	811	1.9	141.289	GST09-3M□□□080C32	E84AV□□□2224□□0	124
1.0	4.1	-	24	632	843	3.0	146.993	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.9	3.7	-	22	691	921	1.7	160.556	GST09-3M□□□080C32	E84AV□□□2224□□0	124
0.9	3.8	-	22	680	908	2.9	158.194	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.8	3.3	-	19	786	1049	1.5	182.844	GST09-3M□□□080C32	E84AV□□□2224□□0	124
0.8	3.3	-	19	775	1034	2.5	180.156	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.7	2.9	-	17	894	1192	1.3	207.778	GST09-3M□□□080C32	E84AV□□□2224□□0	124

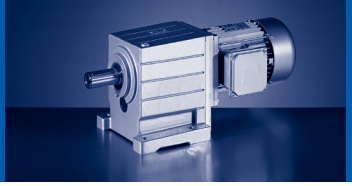
120 Hz: P_N = 2.20 kW

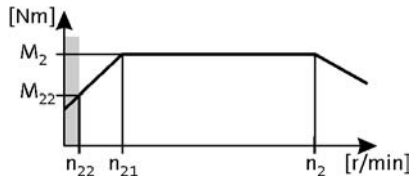
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.8 ... 3500 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.7	2.9	-	17	894	1192	2.2	207.778	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.6	2.5	-	15	1018	1357	1.1	236.622	GST09-3M□□□080C32	E84AV□□□2224□□0	124
0.6	2.5	-	15	1018	1357	1.9	236.622	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.6	2.4	-	14	1084	1447	1.1	252.167	GST09-3M□□□080C32	E84AV□□□2224□□0	124
0.6	2.4	-	14	1084	1447	1.8	252.167	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.5	2.2	-	13	1156	1543	1.0	268.889	GST09-3M□□□080C32	E84AV□□□2224□□0	124
0.5	2.2	-	13	1156	1543	1.8	268.889	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.5	1.8	-	11	1403	1872	1.4	326.333	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.4	1.7	-	9.6	1561	2082	1.2	363.000	GST11-3M□□□080C32	E84AV□□□2224□□0	124
0.4	1.5	-	8.5	1774	2366	1.1	412.500	GST11-3M□□□080C32	E84AV□□□2224□□0	124





120 Hz: P_N = 3.00 kW

n_{22} / n_2 = 1 ... 24.0

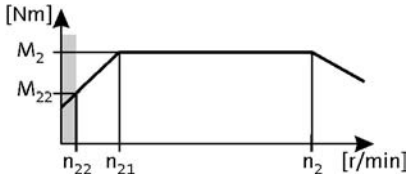
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
71	440	-	1700	13	17	1.0	2.048	GST04-1M□□□080C42	E84AV□□□3024□□S	112
71	440	-	1700	13	17	2.4	2.048	GST05-1M□□□080C42	E84AV□□□3024□□S	112
71	440	-	1700	13	17	3.1	2.048	GST06-1M□□□080C42	E84AV□□□3024□□S	112
65	402	-	1554	14	18	1.0	2.240	GST04-1M□□□080C42	E84AV□□□3024□□S	112
65	402	-	1554	14	18	2.2	2.240	GST05-1M□□□080C42	E84AV□□□3024□□S	112
65	402	-	1554	14	18	3.1	2.240	GST06-1M□□□080C42	E84AV□□□3024□□S	112
51	315	-	1218	17	23	1.7	2.857	GST05-1M□□□080C42	E84AV□□□3024□□S	112
51	315	-	1218	17	23	2.9	2.857	GST06-1M□□□080C42	E84AV□□□3024□□S	112
51	315	-	1218	17	23	3.1	2.857	GST07-1M□□□080C42	E84AV□□□3024□□S	112
41	257	-	994	21	28	1.4	3.500	GST05-1M□□□080C42	E84AV□□□3024□□S	112
41	257	-	994	21	28	2.6	3.500	GST06-1M□□□080C42	E84AV□□□3024□□S	112
32	198	-	764	28	37	1.1	4.556	GST05-1M□□□080C42	E84AV□□□3024□□S	112
32	198	-	764	28	37	2.1	4.556	GST06-1M□□□080C42	E84AV□□□3024□□S	112
32	198	-	764	28	37	2.6	4.556	GST07-1M□□□080C42	E84AV□□□3024□□S	112
28	174	-	671	31	41	0.9	5.187	GST04-2M□□□080C42	E84AV□□□3024□□S	118
28	174	-	671	31	41	1.6	5.187	GST05-2M□□□080C42	E84AV□□□3024□□S	118
27	169	-	654	32	43	3.1	5.324	GST06-2M□□□080C42	E84AV□□□3024□□S	118
26	161	-	623	34	45	2.1	5.583	GST07-1M□□□080C42	E84AV□□□3024□□S	112
26	159	-	614	35	46	1.7	5.667	GST06-1M□□□080C42	E84AV□□□3024□□S	112
25	154	-	595	35	47	1.6	5.850	GST05-2M□□□080C42	E84AV□□□3024□□S	118
25	154	-	595	35	47	3.1	5.850	GST06-2M□□□080C42	E84AV□□□3024□□S	118
23	141	-	544	38	51	1.5	6.400	GST05-2M□□□080C42	E84AV□□□3024□□S	118
23	141	-	544	38	51	3.1	6.400	GST06-2M□□□080C42	E84AV□□□3024□□S	118
20	124	-	481	43	58	1.4	7.238	GST05-2M□□□080C42	E84AV□□□3024□□S	118
20	123	-	475	45	60	1.3	7.333	GST06-1M□□□080C42	E84AV□□□3024□□S	112
20	123	-	475	45	60	2.0	7.333	GST07-1M□□□080C42	E84AV□□□3024□□S	112
18	110	-	426	49	65	1.3	8.163	GST05-2M□□□080C42	E84AV□□□3024□□S	118
18	110	-	426	49	65	2.9	8.163	GST06-2M□□□080C42	E84AV□□□3024□□S	118
16	101	-	391	54	72	1.6	8.900	GST07-1M□□□080C42	E84AV□□□3024□□S	112
16	100	-	386	54	72	1.2	9.010	GST05-2M□□□080C42	E84AV□□□3024□□S	118
16	100	-	386	54	72	2.7	9.010	GST06-2M□□□080C42	E84AV□□□3024□□S	118
15	90	-	348	60	80	1.2	10.000	GST05-2M□□□080C42	E84AV□□□3024□□S	118
15	90	-	348	60	80	2.5	10.000	GST06-2M□□□080C42	E84AV□□□3024□□S	118
13	80	-	311	67	90	1.1	11.200	GST05-2M□□□080C42	E84AV□□□3024□□S	118
13	80	-	311	67	90	2.4	11.200	GST06-2M□□□080C42	E84AV□□□3024□□S	118
13	80	-	309	68	91	0.9	11.250	GST07-1M□□□080C42	E84AV□□□3024□□S	112
12	72	-	277	75	100	2.2	12.571	GST06-2M□□□080C42	E84AV□□□3024□□S	118
12	72	-	277	75	100	3.1	12.571	GST07-2M□□□080C42	E84AV□□□3024□□S	118
11	69	-	267	78	104	1.0	13.016	GST05-2M□□□080C42	E84AV□□□3024□□S	118
10	63	-	244	86	114	2.0	14.286	GST06-2M□□□080C42	E84AV□□□3024□□S	118
10	63	-	244	86	114	3.1	14.286	GST07-2M□□□080C42	E84AV□□□3024□□S	118

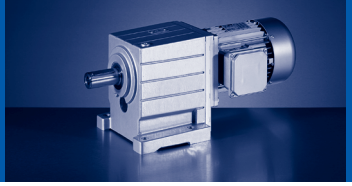
120 Hz: P_N = 3.00 kW

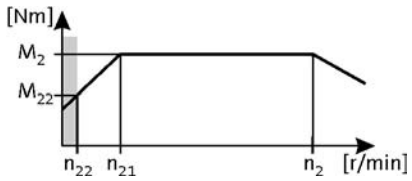
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
10	63	-	242	86	115	0.9	14.356	GST05-2M□□□080C42	E84AV□□□3024□□S	118
9.4	58	-	226	92	123	2.2	15.400	GST06-2M□□□080C42	E84AV□□□3024□□S	118
9.0	56	-	215	97	129	1.0	16.190	GST05-2M□□□080C42	E84AV□□□3024□□S	118
8.3	51	-	199	105	140	1.9	17.500	GST06-2M□□□080C42	E84AV□□□3024□□S	118
7.2	45	-	174	120	160	1.9	20.044	GST06-2M□□□080C42	E84AV□□□3024□□S	118
7.2	45	-	174	120	160	2.9	20.044	GST07-2M□□□080C42	E84AV□□□3024□□S	118
6.4	40	-	153	137	182	1.5	22.778	GST06-2M□□□080C42	E84AV□□□3024□□S	118
6.4	40	-	153	137	182	2.9	22.778	GST07-2M□□□080C42	E84AV□□□3024□□S	118
5.9	37	-	142	147	196	2.4	24.567	GST07-2M□□□080C42	E84AV□□□3024□□S	118
5.8	36	-	140	149	199	1.6	24.933	GST06-2M□□□080C42	E84AV□□□3024□□S	118
5.2	32	-	125	167	223	2.4	27.917	GST07-2M□□□080C42	E84AV□□□3024□□S	118
5.1	32	-	123	170	226	1.2	28.333	GST06-2M□□□080C42	E84AV□□□3024□□S	118
4.5	28	-	108	193	258	1.2	32.267	GST06-2M□□□080C42	E84AV□□□3024□□S	118
4.5	28	-	108	193	258	2.3	32.267	GST07-2M□□□080C42	E84AV□□□3024□□S	118
4.0	25	-	95	220	293	0.9	36.667	GST06-2M□□□080C42	E84AV□□□3024□□S	118
4.0	25	-	95	220	293	2.1	36.667	GST07-2M□□□080C42	E84AV□□□3024□□S	118
3.7	23	-	89	235	313	1.0	39.160	GST06-2M□□□080C42	E84AV□□□3024□□S	118
3.7	23	-	89	235	313	1.8	39.160	GST07-2M□□□080C42	E84AV□□□3024□□S	118
3.7	23	-	89	231	308	1.9	39.200	GST07-3M□□□080C42	E84AV□□□3024□□S	124
3.3	21	-	79	260	346	0.9	44.000	GST06-3M□□□080C42	E84AV□□□3024□□S	124
3.3	21	-	79	260	346	1.9	44.000	GST07-3M□□□080C42	E84AV□□□3024□□S	124
3.3	20	-	78	267	355	1.9	44.500	GST07-2M□□□080C42	E84AV□□□3024□□S	118
2.9	18	-	70	297	395	1.2	49.500	GST07-2M□□□080C42	E84AV□□□3024□□S	118
2.8	18	-	68	301	401	1.7	51.022	GST07-3M□□□080C42	E84AV□□□3024□□S	124
2.7	17	-	66	313	417	3.1	53.044	GST09-3M□□□080C42	E84AV□□□3024□□S	124
2.7	17	-	65	318	424	1.6	53.900	GST07-3M□□□080C42	E84AV□□□3024□□S	124
2.6	16	-	62	337	449	1.2	56.250	GST07-2M□□□080C42	E84AV□□□3024□□S	118
2.4	15	-	58	356	474	3.1	60.278	GST09-3M□□□080C42	E84AV□□□3024□□S	124
2.2	14	-	54	384	512	1.3	65.079	GST07-3M□□□080C42	E84AV□□□3024□□S	124
2.1	13	-	50	414	552	1.2	70.156	GST07-3M□□□080C42	E84AV□□□3024□□S	124
2.0	13	-	48	424	565	2.5	71.867	GST09-3M□□□080C42	E84AV□□□3024□□S	124
1.8	11	-	44	471	628	1.1	79.762	GST07-3M□□□080C42	E84AV□□□3024□□S	124
1.8	11	-	43	482	643	2.3	81.667	GST09-3M□□□080C42	E84AV□□□3024□□S	124
1.7	11	-	41	507	677	1.0	85.983	GST07-3M□□□080C42	E84AV□□□3024□□S	124
1.6	9.6	-	37	552	736	2.1	93.541	GST09-3M□□□080C42	E84AV□□□3024□□S	124
1.5	9.1	-	35	585	780	1.9	99.167	GST09-3M□□□080C42	E84AV□□□3024□□S	124
1.3	7.9	-	31	670	894	1.7	113.585	GST09-3M□□□080C42	E84AV□□□3024□□S	124
1.1	7.0	-	27	762	1016	1.5	129.074	GST09-3M□□□080C42	E84AV□□□3024□□S	124
1.1	7.0	-	27	762	1016	2.6	129.074	GST11-3M□□□080C42	E84AV□□□3024□□S	124
1.0	6.4	-	25	834	1112	1.4	141.289	GST09-3M□□□080C42	E84AV□□□3024□□S	124
1.0	6.1	-	24	867	1157	2.2	146.993	GST11-3M□□□080C42	E84AV□□□3024□□S	124





120 Hz: P_N = 3.00 kW

n_{22} / n_2 = 1 ... 24.0

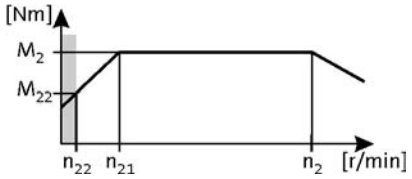
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	5.6	-	22	947	1263	1.2	160.556	GST09-3M□□□080C42	E84AV□□□3024□□S	124
0.9	5.7	-	22	934	1245	2.1	158.194	GST11-3M□□□080C42	E84AV□□□3024□□S	124
0.8	4.9	-	19	1079	1439	1.1	182.844	GST09-3M□□□080C42	E84AV□□□3024□□S	124
0.8	5.0	-	19	1063	1417	1.8	180.156	GST11-3M□□□080C42	E84AV□□□3024□□S	124
0.7	4.3	-	17	1226	1635	0.9	207.778	GST09-3M□□□080C42	E84AV□□□3024□□S	124
0.7	4.3	-	17	1226	1635	1.6	207.778	GST11-3M□□□080C42	E84AV□□□3024□□S	124
0.6	3.8	-	15	1396	1862	1.4	236.622	GST11-3M□□□080C42	E84AV□□□3024□□S	124
0.6	3.6	-	14	1488	1984	1.3	252.167	GST11-3M□□□080C42	E84AV□□□3024□□S	124
0.5	3.4	-	13	1587	2116	1.3	268.889	GST11-3M□□□080C42	E84AV□□□3024□□S	124
0.4	2.8	-	11	1926	2568	1.1	326.333	GST11-3M□□□080C42	E84AV□□□3024□□S	124

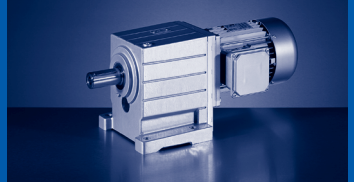
120 Hz: P_N = 4.00 kW

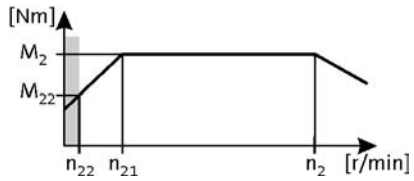
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
71	293	-	1700	16	22	1.8	2.048	GST05-1M□□□090C32	E84AV□□□4024□□0	112
71	293	-	1700	16	22	2.5	2.048	GST06-1M□□□090C32	E84AV□□□4024□□0	112
65	268	-	1554	17	24	1.7	2.240	GST05-1M□□□090C32	E84AV□□□4024□□0	112
65	268	-	1554	17	24	2.4	2.240	GST06-1M□□□090C32	E84AV□□□4024□□0	112
51	210	-	1218	22	31	1.3	2.857	GST05-1M□□□090C32	E84AV□□□4024□□0	112
51	210	-	1218	22	31	2.3	2.857	GST06-1M□□□090C32	E84AV□□□4024□□0	112
51	210	-	1218	22	31	2.9	2.857	GST07-1M□□□090C32	E84AV□□□4024□□0	112
41	171	-	994	27	38	1.1	3.500	GST05-1M□□□090C32	E84AV□□□4024□□0	112
41	171	-	994	27	38	2.1	3.500	GST06-1M□□□090C32	E84AV□□□4024□□0	112
32	132	-	764	35	49	1.6	4.556	GST06-1M□□□090C32	E84AV□□□4024□□0	112
32	132	-	764	35	49	2.4	4.556	GST07-1M□□□090C32	E84AV□□□4024□□0	112
28	116	-	671	39	55	1.2	5.187	GST05-2M□□□090C32	E84AV□□□4024□□0	118
27	113	-	654	40	57	2.8	5.324	GST06-2M□□□090C32	E84AV□□□4024□□0	118
26	108	-	623	42	60	2.0	5.583	GST07-1M□□□090C32	E84AV□□□4024□□0	112
26	106	-	614	43	61	1.3	5.667	GST06-1M□□□090C32	E84AV□□□4024□□0	112
25	103	-	595	44	62	1.2	5.850	GST05-2M□□□090C32	E84AV□□□4024□□0	118
25	103	-	595	44	62	2.7	5.850	GST06-2M□□□090C32	E84AV□□□4024□□0	118
23	94	-	544	48	68	1.2	6.400	GST05-2M□□□090C32	E84AV□□□4024□□0	118
23	94	-	544	48	68	2.5	6.400	GST06-2M□□□090C32	E84AV□□□4024□□0	118
20	83	-	481	54	77	1.1	7.238	GST05-2M□□□090C32	E84AV□□□4024□□0	118
20	82	-	475	56	79	1.0	7.333	GST06-1M□□□090C32	E84AV□□□4024□□0	112
20	82	-	475	56	79	1.7	7.333	GST07-1M□□□090C32	E84AV□□□4024□□0	112
20	82	-	475	56	79	2.0	7.333	GST09-1M□□□090C32	E84AV□□□4024□□0	112
18	74	-	426	61	87	1.0	8.163	GST05-2M□□□090C32	E84AV□□□4024□□0	118
18	74	-	426	61	87	2.2	8.163	GST06-2M□□□090C32	E84AV□□□4024□□0	118
16	67	-	391	67	96	1.4	8.900	GST07-1M□□□090C32	E84AV□□□4024□□0	112
16	67	-	391	67	96	1.8	8.900	GST09-1M□□□090C32	E84AV□□□4024□□0	112
16	67	-	386	67	96	0.9	9.010	GST05-2M□□□090C32	E84AV□□□4024□□0	118
16	67	-	386	67	96	2.1	9.010	GST06-2M□□□090C32	E84AV□□□4024□□0	118
15	60	-	348	75	107	1.9	10.000	GST06-2M□□□090C32	E84AV□□□4024□□0	118
13	54	-	311	84	119	1.8	11.200	GST06-2M□□□090C32	E84AV□□□4024□□0	118
13	53	-	309	85	122	1.4	11.250	GST09-1M□□□090C32	E84AV□□□4024□□0	112
12	48	-	277	94	134	1.7	12.571	GST06-2M□□□090C32	E84AV□□□4024□□0	118
12	48	-	277	94	134	2.9	12.571	GST07-2M□□□090C32	E84AV□□□4024□□0	118
10	42	-	244	107	152	1.5	14.286	GST06-2M□□□090C32	E84AV□□□4024□□0	118
10	42	-	244	107	152	2.9	14.286	GST07-2M□□□090C32	E84AV□□□4024□□0	118
9.4	39	-	226	115	164	1.7	15.400	GST06-2M□□□090C32	E84AV□□□4024□□0	118
8.3	34	-	199	131	186	1.4	17.500	GST06-2M□□□090C32	E84AV□□□4024□□0	118
7.2	30	-	174	149	214	1.4	20.044	GST06-2M□□□090C32	E84AV□□□4024□□0	118
7.2	30	-	174	149	214	2.8	20.044	GST07-2M□□□090C32	E84AV□□□4024□□0	118
6.4	26	-	153	170	243	1.1	22.778	GST06-2M□□□090C32	E84AV□□□4024□□0	118





120 Hz: P_N = 4.00 kW

n_{22} / n_2 = 1 ... 24.0

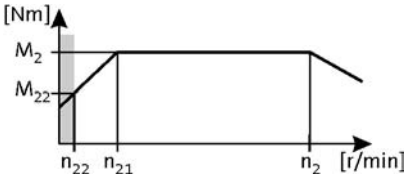
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
6.4	26	-	153	170	243	2.4	22.778	GST07-2M□□□090C32	E84AV□□□4024□□0	118
5.9	24	-	142	183	262	2.3	24.567	GST07-2M□□□090C32	E84AV□□□4024□□0	118
5.8	24	-	140	186	266	1.2	24.933	GST06-2M□□□090C32	E84AV□□□4024□□0	118
5.2	22	-	125	208	297	2.0	27.917	GST07-2M□□□090C32	E84AV□□□4024□□0	118
5.1	21	-	123	211	302	0.9	28.333	GST06-2M□□□090C32	E84AV□□□4024□□0	118
4.5	19	-	108	241	344	0.9	32.267	GST06-2M□□□090C32	E84AV□□□4024□□0	118
4.5	19	-	108	241	344	1.8	32.267	GST07-2M□□□090C32	E84AV□□□4024□□0	118
4.5	19	-	108	241	344	2.3	32.267	GST09-2M□□□090C32	E84AV□□□4024□□0	118
4.0	16	-	95	273	391	1.5	36.667	GST07-2M□□□090C32	E84AV□□□4024□□0	118
4.0	16	-	95	273	391	2.3	36.667	GST09-2M□□□090C32	E84AV□□□4024□□0	118
3.7	15	-	89	288	411	1.4	39.200	GST07-3M□□□090C32	E84AV□□□4024□□0	124
3.7	15	-	89	292	417	1.5	39.160	GST07-2M□□□090C32	E84AV□□□4024□□0	118
3.7	15	-	89	292	417	2.0	39.160	GST09-2M□□□090C32	E84AV□□□4024□□0	118
3.6	15	-	87	295	421	2.7	40.136	GST09-3M□□□090C32	E84AV□□□4024□□0	124
3.4	14	-	80	318	454	2.7	43.267	GST09-3M□□□090C32	E84AV□□□4024□□0	124
3.3	14	-	79	323	462	1.5	44.000	GST07-3M□□□090C32	E84AV□□□4024□□0	124
3.3	14	-	78	332	474	1.4	44.500	GST07-2M□□□090C32	E84AV□□□4024□□0	118
3.3	14	-	78	332	474	2.2	44.500	GST09-2M□□□090C32	E84AV□□□4024□□0	118
3.0	12	-	71	361	516	2.7	49.167	GST09-3M□□□090C32	E84AV□□□4024□□0	124
2.9	12	-	70	369	527	1.1	49.500	GST07-2M□□□090C32	E84AV□□□4024□□0	118
2.9	12	-	70	369	527	1.7	49.500	GST09-2M□□□090C32	E84AV□□□4024□□0	118
2.8	12	-	68	375	535	1.2	51.022	GST07-3M□□□090C32	E84AV□□□4024□□0	124
2.7	11	-	66	390	557	2.4	53.044	GST09-3M□□□090C32	E84AV□□□4024□□0	124
2.7	11	-	65	396	565	1.2	53.900	GST07-3M□□□090C32	E84AV□□□4024□□0	124
2.6	11	-	62	419	599	1.1	56.250	GST07-2M□□□090C32	E84AV□□□4024□□0	118
2.6	11	-	62	419	599	1.7	56.250	GST09-2M□□□090C32	E84AV□□□4024□□0	118
2.4	10	-	58	443	632	2.4	60.278	GST09-3M□□□090C32	E84AV□□□4024□□0	124
2.2	9.2	-	54	478	683	1.0	65.079	GST07-3M□□□090C32	E84AV□□□4024□□0	124
2.1	8.6	-	50	515	736	0.9	70.156	GST07-3M□□□090C32	E84AV□□□4024□□0	124
2.0	8.4	-	48	528	754	1.9	71.867	GST09-3M□□□090C32	E84AV□□□4024□□0	124
1.8	7.4	-	43	600	857	1.8	81.667	GST09-3M□□□090C32	E84AV□□□4024□□0	124
1.6	6.4	-	37	687	981	1.6	93.541	GST09-3M□□□090C32	E84AV□□□4024□□0	124
1.5	6.1	-	35	728	1040	1.5	99.167	GST09-3M□□□090C32	E84AV□□□4024□□0	124
1.3	5.3	-	31	834	1192	1.3	113.585	GST09-3M□□□090C32	E84AV□□□4024□□0	124
1.1	4.7	-	27	948	1354	1.1	129.074	GST09-3M□□□090C32	E84AV□□□4024□□0	124
1.1	4.7	-	27	948	1354	2.0	129.074	GST11-3M□□□090C32	E84AV□□□4024□□0	124
1.0	4.3	-	25	1038	1482	1.0	141.289	GST09-3M□□□090C32	E84AV□□□4024□□0	124
1.0	4.1	-	24	1079	1542	1.7	146.993	GST11-3M□□□090C32	E84AV□□□4024□□0	124
0.9	3.7	-	22	1179	1684	0.9	160.556	GST09-3M□□□090C32	E84AV□□□4024□□0	124
0.9	3.8	-	22	1162	1660	1.6	158.194	GST11-3M□□□090C32	E84AV□□□4024□□0	124
0.8	3.3	-	19	1323	1890	1.4	180.156	GST11-3M□□□090C32	E84AV□□□4024□□0	124

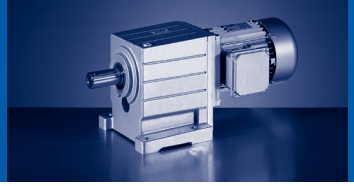
120 Hz: P_N = 4.00 kW

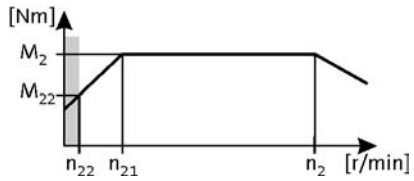
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.7	2.9	-	17	1526	2180	1.2	207.778	GST11-3M□□□090C32	E84AV□□□4024□□0	124
0.7	2.9	-	17	1503	2148	2.5	204.722	GST14-3M□□□090C32	E84AV□□□4024□□0	124
0.6	2.5	-	15	1738	2482	1.0	236.622	GST11-3M□□□090C32	E84AV□□□4024□□0	124
0.6	2.5	-	15	1738	2482	2.2	236.622	GST14-3M□□□090C32	E84AV□□□4024□□0	124
0.6	2.4	-	14	1852	2645	1.0	252.167	GST11-3M□□□090C32	E84AV□□□4024□□0	124
0.6	2.4	-	14	1825	2606	2.2	248.458	GST14-3M□□□090C32	E84AV□□□4024□□0	124
0.5	2.2	-	13	1975	2821	1.0	268.889	GST11-3M□□□090C32	E84AV□□□4024□□0	124
0.5	2.2	-	13	1975	2821	2.0	268.889	GST14-3M□□□090C32	E84AV□□□4024□□0	124
0.4	1.8	-	11	2396	3423	1.6	326.333	GST14-3M□□□090C32	E84AV□□□4024□□0	124
0.4	1.7	-	9.6	2666	3808	1.4	363.000	GST14-3M□□□090C32	E84AV□□□4024□□0	124
0.4	1.5	-	8.4	3029	4327	1.3	412.500	GST14-3M□□□090C32	E84AV□□□4024□□0	124





120 Hz: P_N = 5.50 kW

n_{22} / n_2 = 1 ... 24.0

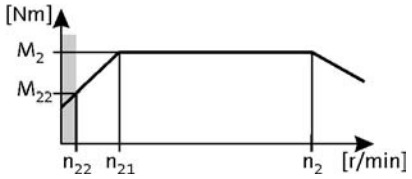
n_1 = 146.9 ... 3525 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
73	300	-	1763	21	29	3.2	2.000	GST07-1M□□□100C12	E84AV□□□5524□□0	112
72	293	-	1722	21	30	1.3	2.048	GST05-1M□□□100C12	E84AV□□□5524□□0	112
72	293	-	1722	21	30	1.8	2.048	GST06-1M□□□100C12	E84AV□□□5524□□0	112
66	268	-	1574	23	33	1.2	2.240	GST05-1M□□□100C12	E84AV□□□5524□□0	112
66	268	-	1574	23	33	1.8	2.240	GST06-1M□□□100C12	E84AV□□□5524□□0	112
66	268	-	1574	23	33	3.1	2.240	GST07-1M□□□100C12	E84AV□□□5524□□0	112
51	210	-	1234	29	42	1.0	2.857	GST05-1M□□□100C12	E84AV□□□5524□□0	112
51	210	-	1234	29	42	1.7	2.857	GST06-1M□□□100C12	E84AV□□□5524□□0	112
51	210	-	1234	29	42	2.8	2.857	GST07-1M□□□100C12	E84AV□□□5524□□0	112
42	171	-	1007	36	51	1.5	3.500	GST06-1M□□□100C12	E84AV□□□5524□□0	112
42	171	-	1007	36	51	2.5	3.500	GST07-1M□□□100C12	E84AV□□□5524□□0	112
32	132	-	774	47	67	1.2	4.556	GST06-1M□□□100C12	E84AV□□□5524□□0	112
32	132	-	774	47	67	2.1	4.556	GST07-1M□□□100C12	E84AV□□□5524□□0	112
32	129	-	755	48	69	3.0	4.667	GST09-1M□□□100C12	E84AV□□□5524□□0	112
28	116	-	680	53	75	0.9	5.187	GST05-2M□□□100C12	E84AV□□□5524□□0	118
28	113	-	662	54	77	2.0	5.324	GST06-2M□□□100C12	E84AV□□□5524□□0	118
26	108	-	631	57	82	1.8	5.583	GST07-1M□□□100C12	E84AV□□□5524□□0	112
26	106	-	622	58	83	1.0	5.667	GST06-1M□□□100C12	E84AV□□□5524□□0	112
26	106	-	622	58	83	2.5	5.667	GST09-1M□□□100C12	E84AV□□□5524□□0	112
25	103	-	603	59	85	0.9	5.850	GST05-2M□□□100C12	E84AV□□□5524□□0	118
25	103	-	603	59	85	2.0	5.850	GST06-2M□□□100C12	E84AV□□□5524□□0	118
23	94	-	551	65	93	1.9	6.400	GST06-2M□□□100C12	E84AV□□□5524□□0	118
20	82	-	481	75	108	1.4	7.333	GST07-1M□□□100C12	E84AV□□□5524□□0	112
20	82	-	481	75	108	2.0	7.333	GST09-1M□□□100C12	E84AV□□□5524□□0	112
18	74	-	432	83	118	1.6	8.163	GST06-2M□□□100C12	E84AV□□□5524□□0	118
17	68	-	401	89	127	3.1	8.800	GST07-2M□□□100C12	E84AV□□□5524□□0	118
17	67	-	396	91	131	1.1	8.900	GST07-1M□□□100C12	E84AV□□□5524□□0	112
17	67	-	396	91	131	1.7	8.900	GST09-1M□□□100C12	E84AV□□□5524□□0	112
16	67	-	391	91	130	1.5	9.010	GST06-2M□□□100C12	E84AV□□□5524□□0	118
15	61	-	358	100	143	2.9	9.856	GST07-2M□□□100C12	E84AV□□□5524□□0	118
15	60	-	353	101	145	1.4	10.000	GST06-2M□□□100C12	E84AV□□□5524□□0	118
13	54	-	315	113	162	1.3	11.200	GST06-2M□□□100C12	E84AV□□□5524□□0	118
13	54	-	315	113	162	2.8	11.200	GST07-2M□□□100C12	E84AV□□□5524□□0	118
13	53	-	313	116	165	1.3	11.250	GST09-1M□□□100C12	E84AV□□□5524□□0	112
12	48	-	280	127	182	1.2	12.571	GST06-2M□□□100C12	E84AV□□□5524□□0	118
12	48	-	280	127	182	2.5	12.571	GST07-2M□□□100C12	E84AV□□□5524□□0	118
10	42	-	247	145	207	1.1	14.286	GST06-2M□□□100C12	E84AV□□□5524□□0	118
10	42	-	247	145	207	2.3	14.286	GST07-2M□□□100C12	E84AV□□□5524□□0	118
9.5	39	-	229	156	223	1.2	15.400	GST06-2M□□□100C12	E84AV□□□5524□□0	118
9.5	39	-	229	156	223	2.5	15.400	GST07-2M□□□100C12	E84AV□□□5524□□0	118
8.4	34	-	201	177	253	1.1	17.500	GST06-2M□□□100C12	E84AV□□□5524□□0	118

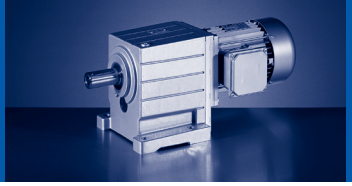
120 Hz: P_N = 5.50 kW

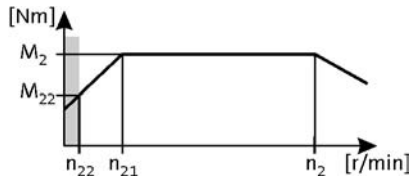
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.9 ... 3525 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
8.4	34	-	201	177	253	2.3	17.500	GST07-2M□□□100C12	E84AV□□□5524□□0	118
7.3	30	-	176	203	290	1.0	20.044	GST06-2M□□□100C12	E84AV□□□5524□□0	118
7.3	30	-	176	203	290	2.0	20.044	GST07-2M□□□100C12	E84AV□□□5524□□0	118
6.5	26	-	155	231	329	1.8	22.778	GST07-2M□□□100C12	E84AV□□□5524□□0	118
6.0	24	-	144	249	355	1.7	24.567	GST07-2M□□□100C12	E84AV□□□5524□□0	118
5.9	24	-	141	252	361	2.9	24.933	GST09-2M□□□100C12	E84AV□□□5524□□0	118
5.3	22	-	126	283	404	1.5	27.917	GST07-2M□□□100C12	E84AV□□□5524□□0	118
5.2	21	-	124	287	410	2.9	28.333	GST09-2M□□□100C12	E84AV□□□5524□□0	118
4.6	19	-	109	327	467	1.3	32.267	GST07-2M□□□100C12	E84AV□□□5524□□0	118
4.6	19	-	109	327	467	2.3	32.267	GST09-2M□□□100C12	E84AV□□□5524□□0	118
4.6	19	-	109	327	467	2.9	32.267	GST11-2M□□□100C12	E84AV□□□5524□□0	118
4.0	16	-	96	371	530	1.1	36.667	GST07-2M□□□100C12	E84AV□□□5524□□0	118
4.0	16	-	96	371	530	2.3	36.667	GST09-2M□□□100C12	E84AV□□□5524□□0	118
4.0	16	-	96	371	530	2.9	36.667	GST11-2M□□□100C12	E84AV□□□5524□□0	118
3.8	15	-	90	391	558	1.1	39.200	GST07-3M□□□100C12	E84AV□□□5524□□0	124
3.8	15	-	90	396	566	1.1	39.160	GST07-2M□□□100C12	E84AV□□□5524□□0	118
3.8	15	-	90	396	566	1.9	39.160	GST09-2M□□□100C12	E84AV□□□5524□□0	118
3.8	15	-	90	396	566	2.4	39.160	GST11-2M□□□100C12	E84AV□□□5524□□0	118
3.7	15	-	88	400	572	2.0	40.136	GST09-3M□□□100C12	E84AV□□□5524□□0	124
3.4	14	-	82	431	616	2.0	43.267	GST09-3M□□□100C12	E84AV□□□5524□□0	124
3.3	14	-	80	439	627	1.1	44.000	GST07-3M□□□100C12	E84AV□□□5524□□0	124
3.3	14	-	79	450	643	1.0	44.500	GST07-2M□□□100C12	E84AV□□□5524□□0	118
3.3	14	-	79	450	643	2.1	44.500	GST09-2M□□□100C12	E84AV□□□5524□□0	118
3.3	14	-	79	450	643	2.7	44.500	GST11-2M□□□100C12	E84AV□□□5524□□0	118
3.0	12	-	72	490	700	2.0	49.167	GST09-3M□□□100C12	E84AV□□□5524□□0	124
3.0	12	-	71	501	716	1.7	49.500	GST09-2M□□□100C12	E84AV□□□5524□□0	118
3.0	12	-	71	501	716	2.2	49.500	GST11-2M□□□100C12	E84AV□□□5524□□0	118
2.9	12	-	69	509	727	0.9	51.022	GST07-3M□□□100C12	E84AV□□□5524□□0	124
2.8	11	-	67	529	755	1.7	53.044	GST09-3M□□□100C12	E84AV□□□5524□□0	124
2.6	11	-	63	569	813	1.7	56.250	GST09-2M□□□100C12	E84AV□□□5524□□0	118
2.6	11	-	63	569	813	2.2	56.250	GST11-2M□□□100C12	E84AV□□□5524□□0	118
2.5	10	-	61	578	826	3.0	57.968	GST11-3M□□□100C12	E84AV□□□5524□□0	124
2.4	10	-	59	601	858	1.7	60.278	GST09-3M□□□100C12	E84AV□□□5524□□0	124
2.4	9.8	-	58	611	872	3.0	61.250	GST11-3M□□□100C12	E84AV□□□5524□□0	124
2.1	8.5	-	50	708	1011	2.5	71.011	GST11-3M□□□100C12	E84AV□□□5524□□0	124
2.0	8.4	-	49	716	1023	1.4	71.867	GST09-3M□□□100C12	E84AV□□□5524□□0	124
1.8	7.4	-	44	804	1149	2.3	80.694	GST11-3M□□□100C12	E84AV□□□5524□□0	124
1.8	7.4	-	43	814	1163	1.3	81.667	GST09-3M□□□100C12	E84AV□□□5524□□0	124
1.7	6.9	-	40	870	1243	2.0	87.267	GST11-3M□□□100C12	E84AV□□□5524□□0	124
1.6	6.4	-	38	932	1332	1.1	93.541	GST09-3M□□□100C12	E84AV□□□5524□□0	124
1.5	6.1	-	36	989	1412	1.1	99.167	GST09-3M□□□100C12	E84AV□□□5524□□0	124





120 Hz: P_N = 5.50 kW

n_{22} / n_2 = 1 ... 24.0

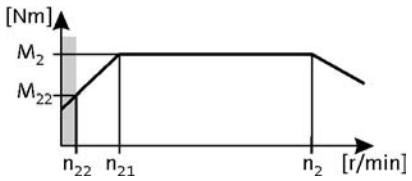
n_1 = 146.9 ... 3525 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.5	6.1	-	36	989	1412	1.9	99.167	GST11-3M□□□100C12	E84AV□□□5524□□0	124
1.3	5.3	-	31	1132	1618	0.9	113.585	GST09-3M□□□100C12	E84AV□□□5524□□0	124
1.3	5.3	-	31	1126	1608	1.6	112.933	GST11-3M□□□100C12	E84AV□□□5524□□0	124
1.1	4.7	-	27	1287	1838	1.4	129.074	GST11-3M□□□100C12	E84AV□□□5524□□0	124
1.1	4.6	-	27	1299	1855	3.0	130.278	GST14-3M□□□100C12	E84AV□□□5524□□0	124
1.1	4.3	-	25	1388	1982	2.7	139.211	GST14-3M□□□100C12	E84AV□□□5524□□0	124
1.0	4.1	-	24	1465	2093	1.2	146.993	GST11-3M□□□100C12	E84AV□□□5524□□0	124
0.9	3.8	-	22	1577	2253	1.2	158.194	GST11-3M□□□100C12	E84AV□□□5524□□0	124
0.9	3.8	-	22	1577	2253	2.5	158.194	GST14-3M□□□100C12	E84AV□□□5524□□0	124
0.9	3.5	-	21	1706	2437	2.3	171.111	GST14-3M□□□100C12	E84AV□□□5524□□0	124
0.8	3.3	-	20	1796	2565	1.0	180.156	GST11-3M□□□100C12	E84AV□□□5524□□0	124
0.7	2.9	-	17	2071	2959	0.9	207.778	GST11-3M□□□100C12	E84AV□□□5524□□0	124
0.7	2.9	-	17	2041	2915	1.9	204.722	GST14-3M□□□100C12	E84AV□□□5524□□0	124
0.6	2.5	-	15	2359	3370	1.6	236.622	GST14-3M□□□100C12	E84AV□□□5524□□0	124
0.6	2.4	-	14	2477	3538	1.6	248.458	GST14-3M□□□100C12	E84AV□□□5524□□0	124
0.6	2.2	-	13	2680	3829	1.5	268.889	GST14-3M□□□100C12	E84AV□□□5524□□0	124
0.5	1.8	-	11	3253	4647	1.2	326.333	GST14-3M□□□100C12	E84AV□□□5524□□0	124
0.4	1.7	-	9.7	3618	5169	1.1	363.000	GST14-3M□□□100C12	E84AV□□□5524□□0	124
0.4	1.5	-	8.6	4112	5874	1.0	412.500	GST14-3M□□□100C12	E84AV□□□5524□□0	124

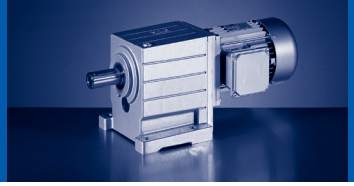
120 Hz: P_N = 7.50 kW

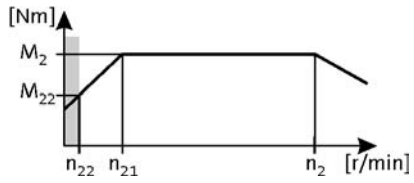
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.5 ... 3515 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
73	300	-	1758	28	40	2.3	2.000	GST07-1M□□□100C32	E84AV□□□7524□□0	112
72	293	-	1717	29	41	1.0	2.048	GST05-1M□□□100C32	E84AV□□□7524□□0	112
72	293	-	1717	29	41	1.3	2.048	GST06-1M□□□100C32	E84AV□□□7524□□0	112
65	268	-	1569	32	45	1.3	2.240	GST06-1M□□□100C32	E84AV□□□7524□□0	112
65	268	-	1569	32	45	2.3	2.240	GST07-1M□□□100C32	E84AV□□□7524□□0	112
52	214	-	1251	40	56	3.1	2.810	GST09-1M□□□100C32	E84AV□□□7524□□0	112
51	210	-	1230	40	57	1.2	2.857	GST06-1M□□□100C32	E84AV□□□7524□□0	112
51	210	-	1230	40	57	2.1	2.857	GST07-1M□□□100C32	E84AV□□□7524□□0	112
42	171	-	1004	49	70	1.1	3.500	GST06-1M□□□100C32	E84AV□□□7524□□0	112
42	171	-	1004	49	70	1.8	3.500	GST07-1M□□□100C32	E84AV□□□7524□□0	112
32	132	-	772	64	91	1.5	4.556	GST07-1M□□□100C32	E84AV□□□7524□□0	112
31	129	-	753	66	94	2.2	4.667	GST09-1M□□□100C32	E84AV□□□7524□□0	112
28	115	-	676	72	103	3.1	5.200	GST07-2M□□□100C32	E84AV□□□7524□□0	118
28	113	-	660	74	105	1.5	5.324	GST06-2M□□□100C32	E84AV□□□7524□□0	118
26	108	-	630	78	112	1.3	5.583	GST07-1M□□□100C32	E84AV□□□7524□□0	112
26	106	-	620	80	114	1.9	5.667	GST09-1M□□□100C32	E84AV□□□7524□□0	112
26	105	-	615	79	113	3.0	5.714	GST07-2M□□□100C32	E84AV□□□7524□□0	118
25	103	-	601	81	116	1.4	5.850	GST06-2M□□□100C32	E84AV□□□7524□□0	118
23	94	-	549	89	127	1.4	6.400	GST06-2M□□□100C32	E84AV□□□7524□□0	118
23	94	-	549	89	127	2.8	6.400	GST07-2M□□□100C32	E84AV□□□7524□□0	118
20	82	-	481	101	144	3.1	7.305	GST09-2M□□□100C32	E84AV□□□7524□□0	118
20	82	-	479	103	147	1.0	7.333	GST07-1M□□□100C32	E84AV□□□7524□□0	112
20	82	-	479	103	147	1.5	7.333	GST09-1M□□□100C32	E84AV□□□7524□□0	112
18	75	-	438	111	159	3.1	8.027	GST09-2M□□□100C32	E84AV□□□7524□□0	118
18	74	-	431	113	161	1.2	8.163	GST06-2M□□□100C32	E84AV□□□7524□□0	118
17	68	-	399	122	174	2.3	8.800	GST07-2M□□□100C32	E84AV□□□7524□□0	118
17	67	-	395	125	179	1.2	8.900	GST09-1M□□□100C32	E84AV□□□7524□□0	112
16	67	-	390	125	178	1.1	9.010	GST06-2M□□□100C32	E84AV□□□7524□□0	118
15	61	-	357	136	195	2.1	9.856	GST07-2M□□□100C32	E84AV□□□7524□□0	118
15	60	-	352	138	198	1.0	10.000	GST06-2M□□□100C32	E84AV□□□7524□□0	118
13	54	-	314	155	221	1.0	11.200	GST06-2M□□□100C32	E84AV□□□7524□□0	118
13	54	-	314	155	221	2.0	11.200	GST07-2M□□□100C32	E84AV□□□7524□□0	118
13	53	-	312	158	226	1.0	11.250	GST09-1M□□□100C32	E84AV□□□7524□□0	112
12	49	-	284	171	244	3.1	12.362	GST09-2M□□□100C32	E84AV□□□7524□□0	118
12	48	-	280	174	249	1.8	12.571	GST07-2M□□□100C32	E84AV□□□7524□□0	118
10	43	-	250	194	278	3.1	14.048	GST09-2M□□□100C32	E84AV□□□7524□□0	118
10	42	-	246	198	282	1.7	14.286	GST07-2M□□□100C32	E84AV□□□7524□□0	118
9.5	39	-	228	213	305	1.8	15.400	GST07-2M□□□100C32	E84AV□□□7524□□0	118
8.4	34	-	201	242	346	1.7	17.500	GST07-2M□□□100C32	E84AV□□□7524□□0	118
7.3	30	-	175	277	396	1.5	20.044	GST07-2M□□□100C32	E84AV□□□7524□□0	118
7.1	29	-	171	284	406	2.5	20.533	GST09-2M□□□100C32	E84AV□□□7524□□0	118





120 Hz: P_N = 7.50 kW

n_{22} / n_2 = 1 ... 24.0

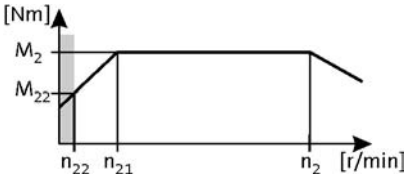
n_1 = 146.5 ... 3515 r/min

n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
6.4	26	-	154	315	450	1.3	22.778	GST07-2M□□□100C32	E84AV□□□7524□□0	118
6.3	26	-	151	323	461	2.5	23.333	GST09-2M□□□100C32	E84AV□□□7524□□0	118
6.0	24	-	143	340	486	1.2	24.567	GST07-2M□□□100C32	E84AV□□□7524□□0	118
5.9	24	-	141	345	493	2.1	24.933	GST09-2M□□□100C32	E84AV□□□7524□□0	118
5.3	22	-	126	386	552	1.1	27.917	GST07-2M□□□100C32	E84AV□□□7524□□0	118
5.2	21	-	124	392	560	2.1	28.333	GST09-2M□□□100C32	E84AV□□□7524□□0	118
4.5	19	-	109	447	638	0.9	32.267	GST07-2M□□□100C32	E84AV□□□7524□□0	118
4.5	19	-	109	447	638	1.7	32.267	GST09-2M□□□100C32	E84AV□□□7524□□0	118
4.5	19	-	109	447	638	2.1	32.267	GST11-2M□□□100C32	E84AV□□□7524□□0	118
4.0	16	-	96	507	725	1.7	36.667	GST09-2M□□□100C32	E84AV□□□7524□□0	118
4.0	16	-	96	507	725	2.1	36.667	GST11-2M□□□100C32	E84AV□□□7524□□0	118
3.7	15	-	90	542	774	1.4	39.160	GST09-2M□□□100C32	E84AV□□□7524□□0	118
3.7	15	-	90	542	774	1.8	39.160	GST11-2M□□□100C32	E84AV□□□7524□□0	118
3.7	15	-	88	547	782	1.5	40.136	GST09-3M□□□100C32	E84AV□□□7524□□0	124
3.6	15	-	86	556	795	2.7	40.816	GST11-3M□□□100C32	E84AV□□□7524□□0	124
3.4	14	-	81	590	843	1.5	43.267	GST09-3M□□□100C32	E84AV□□□7524□□0	124
3.3	14	-	80	600	857	2.7	44.000	GST11-3M□□□100C32	E84AV□□□7524□□0	124
3.3	14	-	79	616	880	1.6	44.500	GST09-2M□□□100C32	E84AV□□□7524□□0	118
3.3	14	-	79	616	880	2.0	44.500	GST11-2M□□□100C32	E84AV□□□7524□□0	118
3.0	12	-	72	670	958	1.5	49.167	GST09-3M□□□100C32	E84AV□□□7524□□0	124
3.0	12	-	71	685	979	1.2	49.500	GST09-2M□□□100C32	E84AV□□□7524□□0	118
3.0	12	-	71	685	979	1.6	49.500	GST11-2M□□□100C32	E84AV□□□7524□□0	118
2.9	12	-	70	682	974	2.7	50.000	GST11-3M□□□100C32	E84AV□□□7524□□0	124
2.8	11	-	66	723	1033	1.3	53.044	GST09-3M□□□100C32	E84AV□□□7524□□0	124
2.6	11	-	63	779	1112	1.2	56.250	GST09-2M□□□100C32	E84AV□□□7524□□0	118
2.6	11	-	63	779	1112	1.6	56.250	GST11-2M□□□100C32	E84AV□□□7524□□0	118
2.5	10	-	61	790	1129	2.2	57.968	GST11-3M□□□100C32	E84AV□□□7524□□0	124
2.4	10	-	58	822	1174	1.3	60.278	GST09-3M□□□100C32	E84AV□□□7524□□0	124
2.4	9.8	-	57	835	1193	2.2	61.250	GST11-3M□□□100C32	E84AV□□□7524□□0	124
2.1	8.5	-	50	968	1383	1.8	71.011	GST11-3M□□□100C32	E84AV□□□7524□□0	124
2.0	8.4	-	49	980	1400	1.0	71.867	GST09-3M□□□100C32	E84AV□□□7524□□0	124
1.8	7.4	-	44	1100	1571	1.7	80.694	GST11-3M□□□100C32	E84AV□□□7524□□0	124
1.8	7.4	-	43	1113	1590	0.9	81.667	GST09-3M□□□100C32	E84AV□□□7524□□0	124
1.7	6.9	-	40	1190	1699	1.5	87.267	GST11-3M□□□100C32	E84AV□□□7524□□0	124
1.6	6.4	-	38	1275	1822	2.7	93.541	GST14-3M□□□100C32	E84AV□□□7524□□0	124
1.5	6.1	-	35	1352	1931	1.4	99.167	GST11-3M□□□100C32	E84AV□□□7524□□0	124
1.4	5.6	-	33	1449	2070	2.7	106.296	GST14-3M□□□100C32	E84AV□□□7524□□0	124
1.3	5.3	-	31	1540	2199	1.2	112.933	GST11-3M□□□100C32	E84AV□□□7524□□0	124
1.1	4.7	-	27	1760	2514	1.1	129.074	GST11-3M□□□100C32	E84AV□□□7524□□0	124
1.1	4.6	-	27	1776	2537	2.2	130.278	GST14-3M□□□100C32	E84AV□□□7524□□0	124
1.1	4.3	-	25	1898	2711	2.0	139.211	GST14-3M□□□100C32	E84AV□□□7524□□0	124

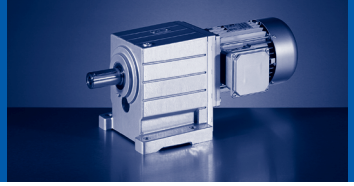
120 Hz: P_N = 7.50 kW

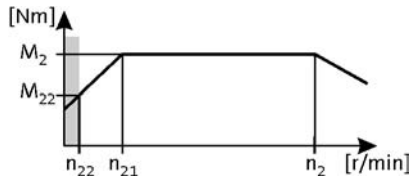
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.5 ... 3515 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.8	-	22	2156	3081	1.8	158.194	GST14-3M□□□100C32	E84AV□□□7524□□0	124
0.9	3.5	-	21	2333	3332	1.7	171.111	GST14-3M□□□100C32	E84AV□□□7524□□0	124
0.7	2.9	-	17	2791	3987	1.4	204.722	GST14-3M□□□100C32	E84AV□□□7524□□0	124
0.6	2.5	-	15	3226	4608	1.2	236.622	GST14-3M□□□100C32	E84AV□□□7524□□0	124
0.6	2.4	-	14	3387	4838	1.2	248.458	GST14-3M□□□100C32	E84AV□□□7524□□0	124
0.5	2.2	-	13	3665	5236	1.1	268.889	GST14-3M□□□100C32	E84AV□□□7524□□0	124





120 Hz: P_N = 11.00 kW

n_{22} / n_2 = 1 ... 24.0

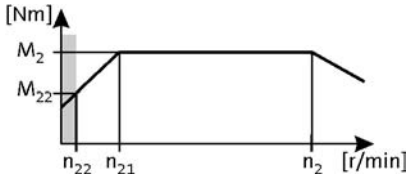
n_1 = 147.1 ... 3530 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
74	300	-	1765	38	59	1.6	2.000	GST07-1M□□□112C22	E84AV□□□1134□□0	112
72	293	-	1724	38	60	0.9	2.048	GST06-1M□□□112C22	E84AV□□□1134□□0	112
72	293	-	1724	38	60	3.2	2.048	GST09-1M□□□112C22	E84AV□□□1134□□0	112
66	268	-	1576	42	66	1.5	2.240	GST07-1M□□□112C22	E84AV□□□1134□□0	112
63	257	-	1513	44	68	2.9	2.333	GST09-1M□□□112C22	E84AV□□□1134□□0	112
52	214	-	1256	53	82	2.5	2.810	GST09-1M□□□112C22	E84AV□□□1134□□0	112
52	210	-	1236	54	84	1.4	2.857	GST07-1M□□□112C22	E84AV□□□1134□□0	112
43	174	-	1025	65	101	2.2	3.444	GST09-1M□□□112C22	E84AV□□□1134□□0	112
42	171	-	1009	66	103	1.3	3.500	GST07-1M□□□112C22	E84AV□□□1134□□0	112
32	132	-	775	86	134	1.0	4.556	GST07-1M□□□112C22	E84AV□□□1134□□0	112
32	129	-	756	88	137	1.7	4.667	GST09-1M□□□112C22	E84AV□□□1134□□0	112
28	115	-	679	96	150	2.1	5.200	GST07-2M□□□112C22	E84AV□□□1134□□0	118
28	113	-	663	98	154	1.0	5.324	GST06-2M□□□112C22	E84AV□□□1134□□0	118
28	113	-	663	98	154	3.2	5.324	GST09-2M□□□112C22	E84AV□□□1134□□0	118
26	108	-	632	105	164	0.9	5.583	GST07-1M□□□112C22	E84AV□□□1134□□0	112
26	106	-	623	106	166	1.5	5.667	GST09-1M□□□112C22	E84AV□□□1134□□0	112
26	105	-	618	106	165	2.0	5.714	GST07-2M□□□112C22	E84AV□□□1134□□0	118
25	103	-	603	108	169	1.0	5.850	GST06-2M□□□112C22	E84AV□□□1134□□0	118
25	103	-	603	108	169	3.2	5.850	GST09-2M□□□112C22	E84AV□□□1134□□0	118
23	94	-	552	118	185	0.9	6.400	GST06-2M□□□112C22	E84AV□□□1134□□0	118
23	94	-	552	118	185	1.9	6.400	GST07-2M□□□112C22	E84AV□□□1134□□0	118
22	90	-	530	123	193	2.9	6.667	GST09-2M□□□112C22	E84AV□□□1134□□0	118
20	82	-	483	135	211	2.5	7.305	GST09-2M□□□112C22	E84AV□□□1134□□0	118
20	82	-	481	138	215	1.2	7.333	GST09-1M□□□112C22	E84AV□□□1134□□0	112
18	75	-	440	148	232	2.5	8.027	GST09-2M□□□112C22	E84AV□□□1134□□0	118
17	68	-	401	163	254	1.6	8.800	GST07-2M□□□112C22	E84AV□□□1134□□0	118
17	67	-	397	167	261	1.0	8.900	GST09-1M□□□112C22	E84AV□□□1134□□0	112
16	67	-	392	167	260	3.2	9.010	GST09-2M□□□112C22	E84AV□□□1134□□0	118
15	61	-	358	182	285	1.5	9.856	GST07-2M□□□112C22	E84AV□□□1134□□0	118
14	58	-	344	190	296	2.9	10.267	GST09-2M□□□112C22	E84AV□□□1134□□0	118
13	54	-	315	207	323	1.4	11.200	GST07-2M□□□112C22	E84AV□□□1134□□0	118
13	51	-	303	216	337	2.7	11.667	GST09-2M□□□112C22	E84AV□□□1134□□0	118
12	49	-	286	228	357	2.5	12.362	GST09-2M□□□112C22	E84AV□□□1134□□0	118
12	48	-	281	232	363	1.2	12.571	GST07-2M□□□112C22	E84AV□□□1134□□0	118
12	48	-	281	232	363	3.1	12.571	GST11-2M□□□112C22	E84AV□□□1134□□0	118
11	43	-	251	260	406	2.4	14.048	GST09-2M□□□112C22	E84AV□□□1134□□0	118
10	42	-	247	264	413	1.2	14.286	GST07-2M□□□112C22	E84AV□□□1134□□0	118
10	42	-	247	264	413	3.1	14.286	GST11-2M□□□112C22	E84AV□□□1134□□0	118
9.7	40	-	233	280	438	2.5	15.156	GST09-2M□□□112C22	E84AV□□□1134□□0	118
9.6	39	-	229	285	445	1.2	15.400	GST07-2M□□□112C22	E84AV□□□1134□□0	118
8.5	35	-	205	318	497	2.4	17.222	GST09-2M□□□112C22	E84AV□□□1134□□0	118

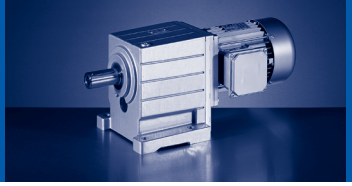
120 Hz: P_N = 11.00 kW

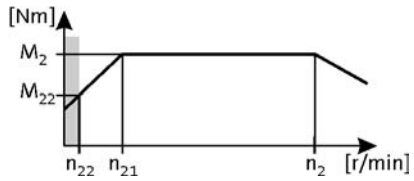
n_{22} / n_2 = 1 ... 24.0

n_1 = 147.1 ... 3530 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
8.4	34	-	202	323	505	1.1	17.500	GST07-2M□□□112C22	E84AV□□□1134□□0	118
7.3	30	-	176	370	579	1.0	20.044	GST07-2M□□□112C22	E84AV□□□1134□□0	118
7.3	30	-	174	375	586	2.5	20.289	GST11-2M□□□112C22	E84AV□□□1134□□0	118
7.2	29	-	172	379	593	1.9	20.533	GST09-2M□□□112C22	E84AV□□□1134□□0	118
6.4	26	-	153	426	666	2.5	23.056	GST11-2M□□□112C22	E84AV□□□1134□□0	118
6.3	26	-	151	431	674	1.9	23.333	GST09-2M□□□112C22	E84AV□□□1134□□0	118
5.9	24	-	142	461	720	1.7	24.933	GST09-2M□□□112C22	E84AV□□□1134□□0	118
5.9	24	-	142	461	720	2.1	24.933	GST11-2M□□□112C22	E84AV□□□1134□□0	118
5.2	21	-	125	524	818	1.6	28.333	GST09-2M□□□112C22	E84AV□□□1134□□0	118
5.2	21	-	125	524	818	2.1	28.333	GST11-2M□□□112C22	E84AV□□□1134□□0	118
4.6	19	-	109	596	932	1.3	32.267	GST09-2M□□□112C22	E84AV□□□1134□□0	118
4.6	19	-	109	596	932	1.6	32.267	GST11-2M□□□112C22	E84AV□□□1134□□0	118
4.6	19	-	109	596	932	2.0	32.267	GST14-2M□□□112C22	E84AV□□□1134□□0	118
4.0	16	-	96	678	1059	1.2	36.667	GST09-2M□□□112C22	E84AV□□□1134□□0	118
4.0	16	-	96	678	1059	1.6	36.667	GST11-2M□□□112C22	E84AV□□□1134□□0	118
4.0	16	-	96	678	1059	2.0	36.667	GST14-2M□□□112C22	E84AV□□□1134□□0	118
3.8	15	-	90	724	1131	1.1	39.160	GST09-2M□□□112C22	E84AV□□□1134□□0	118
3.8	15	-	90	724	1131	1.4	39.160	GST11-2M□□□112C22	E84AV□□□1134□□0	118
3.8	15	-	90	724	1131	1.7	39.160	GST14-2M□□□112C22	E84AV□□□1134□□0	118
3.7	15	-	88	731	1142	1.0	40.136	GST09-3M□□□112C22	E84AV□□□1134□□0	124
3.6	15	-	87	743	1161	1.9	40.816	GST11-3M□□□112C22	E84AV□□□1134□□0	124
3.5	14	-	83	775	1211	3.2	42.580	GST14-3M□□□112C22	E84AV□□□1134□□0	124
3.4	14	-	82	788	1231	1.0	43.267	GST09-3M□□□112C22	E84AV□□□1134□□0	124
3.3	14	-	80	801	1251	1.8	44.000	GST11-3M□□□112C22	E84AV□□□1134□□0	124
3.3	14	-	79	822	1285	1.1	44.500	GST09-2M□□□112C22	E84AV□□□1134□□0	118
3.3	14	-	79	822	1285	1.5	44.500	GST11-2M□□□112C22	E84AV□□□1134□□0	118
3.3	14	-	79	822	1285	1.9	44.500	GST14-2M□□□112C22	E84AV□□□1134□□0	118
3.0	12	-	73	881	1376	3.2	48.386	GST14-3M□□□112C22	E84AV□□□1134□□0	124
3.0	12	-	72	895	1398	1.0	49.167	GST09-3M□□□112C22	E84AV□□□1134□□0	124
3.0	12	-	71	915	1429	1.2	49.500	GST11-2M□□□112C22	E84AV□□□1134□□0	118
3.0	12	-	71	915	1429	1.5	49.500	GST14-2M□□□112C22	E84AV□□□1134□□0	118
2.9	12	-	71	910	1422	1.8	50.000	GST11-3M□□□112C22	E84AV□□□1134□□0	124
2.8	11	-	66	967	1512	3.0	53.148	GST14-3M□□□112C22	E84AV□□□1134□□0	124
2.6	11	-	63	1039	1624	1.2	56.250	GST11-2M□□□112C22	E84AV□□□1134□□0	118
2.6	11	-	63	1039	1624	1.5	56.250	GST14-2M□□□112C22	E84AV□□□1134□□0	118
2.5	10	-	61	1055	1649	1.5	57.968	GST11-3M□□□112C22	E84AV□□□1134□□0	124
2.5	10	-	60	1080	1687	2.7	59.321	GST14-3M□□□112C22	E84AV□□□1134□□0	124
2.4	9.8	-	58	1115	1742	1.5	61.250	GST11-3M□□□112C22	E84AV□□□1134□□0	124
2.1	8.7	-	51	1257	1964	2.4	69.042	GST14-3M□□□112C22	E84AV□□□1134□□0	124
2.1	8.5	-	50	1293	2020	1.2	71.011	GST11-3M□□□112C22	E84AV□□□1134□□0	124
1.9	7.7	-	45	1428	2231	2.4	78.457	GST14-3M□□□112C22	E84AV□□□1134□□0	124





120 Hz: P_N = 11.00 kW

n_{22} / n_2 = 1 ... 24.0

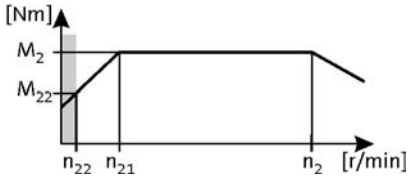
n_1 = 147.1 ... 3530 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.8	7.4	-	44	1469	2295	1.2	80.694	GST11-3M□□□112C22	E84AV□□□1134□□0	124
1.7	6.9	-	41	1588	2482	1.0	87.267	GST11-3M□□□112C22	E84AV□□□1134□□0	124
1.6	6.4	-	38	1703	2660	2.0	93.541	GST14-3M□□□112C22	E84AV□□□1134□□0	124
1.5	6.2	-	37	1750	2735	2.0	96.157	GST14-3M□□□112C22	E84AV□□□1134□□0	124
1.5	6.1	-	36	1805	2820	0.9	99.167	GST11-3M□□□112C22	E84AV□□□1134□□0	124
1.4	5.6	-	33	1935	3023	1.9	106.296	GST14-3M□□□112C22	E84AV□□□1134□□0	124
1.1	4.6	-	27	2371	3705	1.5	130.278	GST14-3M□□□112C22	E84AV□□□1134□□0	124
1.1	4.3	-	25	2534	3959	1.4	139.211	GST14-3M□□□112C22	E84AV□□□1134□□0	124
0.9	3.8	-	22	2879	4499	1.2	158.194	GST14-3M□□□112C22	E84AV□□□1134□□0	124
0.9	3.5	-	21	3115	4866	1.2	171.111	GST14-3M□□□112C22	E84AV□□□1134□□0	124
0.7	2.9	-	17	3726	5822	1.0	204.722	GST14-3M□□□112C22	E84AV□□□1134□□0	124

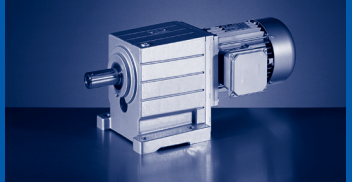
120 Hz: P_N = 15.00 kW

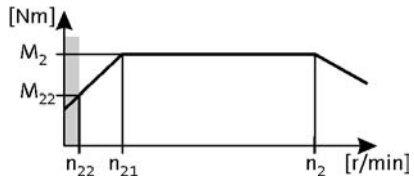
n_{22} / n_2 = 1 ... 24.0

n_1 = 148.3 ... 3560 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
74	300	-	1780	51	79	1.2	2.000	GST07-1M□□□132C12	E84AV□□□1534□□0	112
72	293	-	1739	52	81	3.1	2.048	GST09-1M□□□132C12	E84AV□□□1534□□0	112
66	268	-	1589	57	89	1.1	2.240	GST07-1M□□□132C12	E84AV□□□1534□□0	112
64	257	-	1526	59	93	3.0	2.333	GST09-1M□□□132C12	E84AV□□□1534□□0	112
53	214	-	1267	71	111	2.8	2.810	GST09-1M□□□132C12	E84AV□□□1534□□0	112
52	210	-	1246	73	113	1.1	2.857	GST07-1M□□□132C12	E84AV□□□1534□□0	112
43	174	-	1034	87	137	2.4	3.444	GST09-1M□□□132C12	E84AV□□□1534□□0	112
42	171	-	1017	89	139	0.9	3.500	GST07-1M□□□132C12	E84AV□□□1534□□0	112
32	129	-	763	118	185	1.5	4.667	GST09-1M□□□132C12	E84AV□□□1534□□0	112
29	115	-	685	130	203	1.6	5.200	GST07-2M□□□132C12	E84AV□□□1534□□0	118
26	106	-	628	144	225	1.6	5.667	GST09-1M□□□132C12	E84AV□□□1534□□0	112
26	105	-	623	143	223	1.5	5.714	GST07-2M□□□132C12	E84AV□□□1534□□0	118
23	94	-	556	160	250	1.4	6.400	GST07-2M□□□132C12	E84AV□□□1534□□0	118
22	90	-	534	167	260	3.1	6.667	GST09-2M□□□132C12	E84AV□□□1534□□0	118
20	82	-	487	183	285	2.9	7.305	GST09-2M□□□132C12	E84AV□□□1534□□0	118
19	75	-	444	201	313	2.7	8.027	GST09-2M□□□132C12	E84AV□□□1534□□0	118
17	68	-	405	220	344	1.2	8.800	GST07-2M□□□132C12	E84AV□□□1534□□0	118
17	67	-	395	225	352	2.4	9.010	GST09-2M□□□132C12	E84AV□□□1534□□0	118
15	61	-	361	246	385	1.1	9.856	GST07-2M□□□132C12	E84AV□□□1534□□0	118
14	58	-	347	257	401	2.2	10.267	GST09-2M□□□132C12	E84AV□□□1534□□0	118
13	54	-	318	280	437	1.0	11.200	GST07-2M□□□132C12	E84AV□□□1534□□0	118
13	51	-	305	292	456	2.0	11.667	GST09-2M□□□132C12	E84AV□□□1534□□0	118
12	49	-	288	309	483	1.9	12.362	GST09-2M□□□132C12	E84AV□□□1534□□0	118
12	48	-	283	314	491	0.9	12.571	GST07-2M□□□132C12	E84AV□□□1534□□0	118
11	43	-	253	351	548	1.8	14.048	GST09-2M□□□132C12	E84AV□□□1534□□0	118
9.8	40	-	235	379	592	1.9	15.156	GST09-2M□□□132C12	E84AV□□□1534□□0	118
9.6	39	-	231	385	601	0.9	15.400	GST07-2M□□□132C12	E84AV□□□1534□□0	118
8.6	35	-	207	430	672	1.7	17.222	GST09-2M□□□132C12	E84AV□□□1534□□0	118
7.3	30	-	176	507	792	3.0	20.289	GST11-2M□□□132C12	E84AV□□□1534□□0	118
7.2	29	-	173	513	802	1.6	20.533	GST09-2M□□□132C12	E84AV□□□1534□□0	118
6.4	26	-	154	576	900	2.8	23.056	GST11-2M□□□132C12	E84AV□□□1534□□0	118
6.4	26	-	153	583	911	1.4	23.333	GST09-2M□□□132C12	E84AV□□□1534□□0	118
6.0	24	-	143	623	973	1.4	24.933	GST09-2M□□□132C12	E84AV□□□1534□□0	118
6.0	24	-	143	623	973	2.4	24.933	GST11-2M□□□132C12	E84AV□□□1534□□0	118
5.2	21	-	126	708	1106	1.2	28.333	GST09-2M□□□132C12	E84AV□□□1534□□0	118
5.2	21	-	126	708	1106	2.3	28.333	GST11-2M□□□132C12	E84AV□□□1534□□0	118
4.6	19	-	110	806	1260	1.9	32.267	GST11-2M□□□132C12	E84AV□□□1534□□0	118
4.6	19	-	110	806	1260	3.2	32.267	GST14-2M□□□132C12	E84AV□□□1534□□0	118
4.1	16	-	97	916	1432	1.7	36.667	GST11-2M□□□132C12	E84AV□□□1534□□0	118
4.1	16	-	97	916	1432	3.2	36.667	GST14-2M□□□132C12	E84AV□□□1534□□0	118
3.8	15	-	91	979	1529	1.6	39.160	GST11-2M□□□132C12	E84AV□□□1534□□0	118





120 Hz: P_N = 15.00 kW

n_{22} / n_2 = 1 ... 24.0

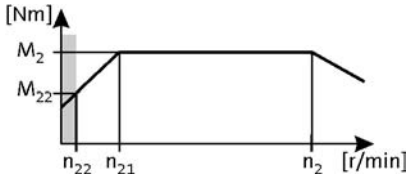
n_1 = 148.3 ... 3560 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
3.8	15	-	91	979	1529	2.7	39.160	GST14-2M□□□132C12	E84AV□□□1534□□0	118
3.7	15	-	89	989	1545	2.5	40.185	GST14-3M□□□132C12	E84AV□□□1534□□0	124
3.6	15	-	87	1005	1570	1.4	40.816	GST11-3M□□□132C12	E84AV□□□1534□□0	124
3.5	14	-	84	1048	1637	2.5	42.580	GST14-3M□□□132C12	E84AV□□□1534□□0	124
3.4	14	-	81	1083	1692	1.3	44.000	GST11-3M□□□132C12	E84AV□□□1534□□0	124
3.3	14	-	80	1112	1737	1.6	44.500	GST11-2M□□□132C12	E84AV□□□1534□□0	118
3.3	14	-	80	1112	1737	3.0	44.500	GST14-2M□□□132C12	E84AV□□□1534□□0	118
3.1	12	-	74	1191	1861	2.5	48.386	GST14-3M□□□132C12	E84AV□□□1534□□0	124
3.0	12	-	72	1237	1933	2.1	49.500	GST14-2M□□□132C12	E84AV□□□1534□□0	118
3.0	12	-	71	1231	1923	1.3	50.000	GST11-3M□□□132C12	E84AV□□□1534□□0	124
2.8	11	-	67	1308	2044	2.2	53.148	GST14-3M□□□132C12	E84AV□□□1534□□0	124
2.6	11	-	63	1406	2196	2.1	56.250	GST14-2M□□□132C12	E84AV□□□1534□□0	118
2.6	10	-	61	1427	2229	1.1	57.968	GST11-3M□□□132C12	E84AV□□□1534□□0	124
2.5	10	-	60	1460	2281	2.2	59.321	GST14-3M□□□132C12	E84AV□□□1534□□0	124
2.4	9.8	-	58	1507	2355	1.1	61.250	GST11-3M□□□132C12	E84AV□□□1534□□0	124
2.2	8.7	-	52	1699	2655	1.7	69.042	GST14-3M□□□132C12	E84AV□□□1534□□0	124
2.1	8.5	-	50	1748	2731	0.9	71.011	GST11-3M□□□132C12	E84AV□□□1534□□0	124
1.9	7.7	-	45	1931	3017	1.7	78.457	GST14-3M□□□132C12	E84AV□□□1534□□0	124
1.6	6.4	-	38	2302	3597	1.5	93.541	GST14-3M□□□132C12	E84AV□□□1534□□0	124
1.5	6.2	-	37	2367	3698	1.5	96.157	GST14-3M□□□132C12	E84AV□□□1534□□0	124
1.4	5.6	-	34	2616	4088	1.4	106.296	GST14-3M□□□132C12	E84AV□□□1534□□0	124
1.1	4.6	-	27	3206	5010	1.1	130.278	GST14-3M□□□132C12	E84AV□□□1534□□0	124
1.1	4.3	-	26	3426	5353	1.0	139.211	GST14-3M□□□132C12	E84AV□□□1534□□0	124
0.9	3.8	-	23	3893	6083	0.9	158.194	GST14-3M□□□132C12	E84AV□□□1534□□0	124

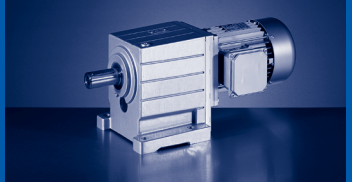
120 Hz: P_N = 18.50 kW

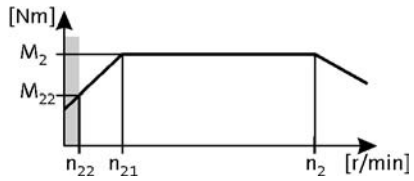
n_{22} / n_2 = 1 ... 24.0

n_1 = 148.3 ... 3560 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
74	300	-	1780	63	98	0.9	2.000	GST07-1M□□□132C22	E84AV□□□1834□□0	112
72	293	-	1739	64	100	2.5	2.048	GST09-1M□□□132C22	E84AV□□□1834□□0	112
66	268	-	1589	70	110	0.9	2.240	GST07-1M□□□132C22	E84AV□□□1834□□0	112
64	257	-	1526	73	114	2.4	2.333	GST09-1M□□□132C22	E84AV□□□1834□□0	112
53	214	-	1267	88	137	2.3	2.810	GST09-1M□□□132C22	E84AV□□□1834□□0	112
43	174	-	1034	108	168	2.0	3.444	GST09-1M□□□132C22	E84AV□□□1834□□0	112
32	129	-	763	146	228	1.2	4.667	GST09-1M□□□132C22	E84AV□□□1834□□0	112
29	115	-	685	160	250	1.3	5.200	GST07-2M□□□132C22	E84AV□□□1834□□0	118
28	113	-	669	164	256	2.9	5.324	GST09-2M□□□132C22	E84AV□□□1834□□0	118
26	106	-	628	177	277	1.3	5.667	GST09-1M□□□132C22	E84AV□□□1834□□0	112
26	105	-	623	176	275	1.2	5.714	GST07-2M□□□132C22	E84AV□□□1834□□0	118
25	103	-	609	180	282	2.7	5.850	GST09-2M□□□132C22	E84AV□□□1834□□0	118
23	94	-	556	197	308	1.1	6.400	GST07-2M□□□132C22	E84AV□□□1834□□0	118
22	90	-	534	205	321	2.5	6.667	GST09-2M□□□132C22	E84AV□□□1834□□0	118
20	82	-	487	225	352	2.4	7.305	GST09-2M□□□132C22	E84AV□□□1834□□0	118
19	75	-	444	247	387	2.2	8.027	GST09-2M□□□132C22	E84AV□□□1834□□0	118
17	68	-	405	271	424	0.9	8.800	GST07-2M□□□132C22	E84AV□□□1834□□0	118
17	67	-	395	278	434	1.9	9.010	GST09-2M□□□132C22	E84AV□□□1834□□0	118
14	58	-	347	316	494	1.8	10.267	GST09-2M□□□132C22	E84AV□□□1834□□0	118
13	51	-	305	360	562	1.6	11.667	GST09-2M□□□132C22	E84AV□□□1834□□0	118
12	49	-	288	381	595	1.6	12.362	GST09-2M□□□132C22	E84AV□□□1834□□0	118
12	48	-	283	387	605	3.1	12.571	GST11-2M□□□132C22	E84AV□□□1834□□0	118
11	43	-	253	433	676	1.4	14.048	GST09-2M□□□132C22	E84AV□□□1834□□0	118
10	42	-	249	440	688	2.8	14.286	GST11-2M□□□132C22	E84AV□□□1834□□0	118
9.8	40	-	235	467	730	1.6	15.156	GST09-2M□□□132C22	E84AV□□□1834□□0	118
9.6	39	-	231	475	742	3.1	15.400	GST11-2M□□□132C22	E84AV□□□1834□□0	118
8.6	35	-	207	531	829	1.4	17.222	GST09-2M□□□132C22	E84AV□□□1834□□0	118
8.5	34	-	203	539	843	2.8	17.500	GST11-2M□□□132C22	E84AV□□□1834□□0	118
7.3	30	-	176	625	977	2.4	20.289	GST11-2M□□□132C22	E84AV□□□1834□□0	118
7.2	29	-	173	633	989	1.3	20.533	GST09-2M□□□132C22	E84AV□□□1834□□0	118
6.4	26	-	154	711	1110	2.2	23.056	GST11-2M□□□132C22	E84AV□□□1834□□0	118
6.4	26	-	153	719	1124	1.1	23.333	GST09-2M□□□132C22	E84AV□□□1834□□0	118
6.0	24	-	145	757	1183	3.2	24.567	GST14-2M□□□132C22	E84AV□□□1834□□0	118
6.0	24	-	143	768	1201	1.1	24.933	GST09-2M□□□132C22	E84AV□□□1834□□0	118
6.0	24	-	143	768	1201	2.0	24.933	GST11-2M□□□132C22	E84AV□□□1834□□0	118
5.3	22	-	128	860	1344	3.2	27.917	GST14-2M□□□132C22	E84AV□□□1834□□0	118
5.2	21	-	126	873	1364	0.9	28.333	GST09-2M□□□132C22	E84AV□□□1834□□0	118
5.2	21	-	126	873	1364	1.8	28.333	GST11-2M□□□132C22	E84AV□□□1834□□0	118
4.6	19	-	110	994	1554	1.5	32.267	GST11-2M□□□132C22	E84AV□□□1834□□0	118
4.6	19	-	110	994	1554	2.6	32.267	GST14-2M□□□132C22	E84AV□□□1834□□0	118
4.1	16	-	97	1130	1766	1.4	36.667	GST11-2M□□□132C22	E84AV□□□1834□□0	118





120 Hz: P_N = 18.50 kW

n_{22} / n_2 = 1 ... 24.0

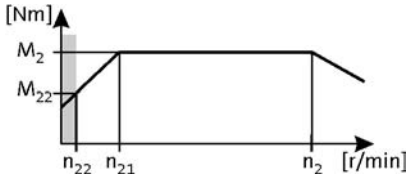
n_1 = 148.3 ... 3560 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
4.1	16	-	97	1130	1766	2.6	36.667	GST14-2M□□□132C22	E84AV□□□1834□□0	118
3.8	15	-	91	1207	1886	1.3	39.160	GST11-2M□□□132C22	E84AV□□□1834□□0	118
3.8	15	-	91	1207	1886	2.2	39.160	GST14-2M□□□132C22	E84AV□□□1834□□0	118
3.7	15	-	89	1220	1906	2.0	40.185	GST14-3M□□□132C22	E84AV□□□1834□□0	124
3.6	15	-	87	1239	1936	1.1	40.816	GST11-3M□□□132C22	E84AV□□□1834□□0	124
3.5	14	-	84	1293	2020	2.0	42.580	GST14-3M□□□132C22	E84AV□□□1834□□0	124
3.4	14	-	81	1336	2087	1.1	44.000	GST11-3M□□□132C22	E84AV□□□1834□□0	124
3.3	14	-	80	1371	2143	1.3	44.500	GST11-2M□□□132C22	E84AV□□□1834□□0	118
3.3	14	-	80	1371	2143	2.4	44.500	GST14-2M□□□132C22	E84AV□□□1834□□0	118
3.1	12	-	74	1469	2295	2.0	48.386	GST14-3M□□□132C22	E84AV□□□1834□□0	124
3.0	12	-	72	1525	2383	1.7	49.500	GST14-2M□□□132C22	E84AV□□□1834□□0	118
3.0	12	-	71	1518	2371	1.1	50.000	GST11-3M□□□132C22	E84AV□□□1834□□0	124
2.8	11	-	67	1613	2521	1.8	53.148	GST14-3M□□□132C22	E84AV□□□1834□□0	124
2.6	11	-	63	1733	2708	1.7	56.250	GST14-2M□□□132C22	E84AV□□□1834□□0	118
2.5	10	-	60	1801	2814	1.8	59.321	GST14-3M□□□132C22	E84AV□□□1834□□0	124
2.2	8.7	-	52	2096	3275	1.4	69.042	GST14-3M□□□132C22	E84AV□□□1834□□0	124
1.9	7.7	-	45	2382	3721	1.4	78.457	GST14-3M□□□132C22	E84AV□□□1834□□0	124
1.6	6.4	-	38	2839	4436	1.2	93.541	GST14-3M□□□132C22	E84AV□□□1834□□0	124
1.5	6.2	-	37	2919	4561	1.2	96.157	GST14-3M□□□132C22	E84AV□□□1834□□0	124
1.4	5.6	-	34	3227	5041	1.1	106.296	GST14-3M□□□132C22	E84AV□□□1834□□0	124
1.1	4.6	-	27	3954	6179	0.9	130.278	GST14-3M□□□132C22	E84AV□□□1834□□0	124

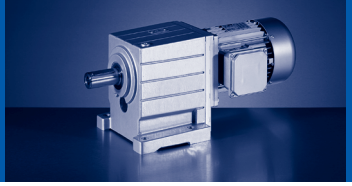
120 Hz: P_N = 22.00 kW

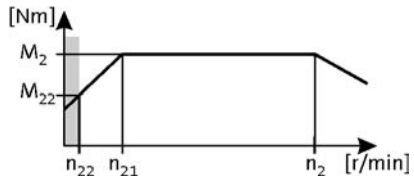
n_{22} / n_2 = 1 ... 24.0

n_1 = 147.9 ... 3550 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
72	293	-	1734	76	119	2.1	2.048	GST09-1M□□□132C32	E84AV□□□2234□□0	112
63	257	-	1521	87	136	2.0	2.333	GST09-1M□□□132C32	E84AV□□□2234□□0	112
53	214	-	1264	105	164	1.9	2.810	GST09-1M□□□132C32	E84AV□□□2234□□0	112
43	174	-	1031	129	201	1.7	3.444	GST09-1M□□□132C32	E84AV□□□2234□□0	112
32	129	-	761	174	272	1.0	4.667	GST09-1M□□□132C32	E84AV□□□2234□□0	112
28	113	-	667	196	306	2.4	5.324	GST09-2M□□□132C32	E84AV□□□2234□□0	118
26	106	-	627	211	330	1.1	5.667	GST09-1M□□□132C32	E84AV□□□2234□□0	112
25	103	-	607	215	336	2.3	5.850	GST09-2M□□□132C32	E84AV□□□2234□□0	118
23	94	-	555	235	368	3.2	6.400	GST11-2M□□□132C32	E84AV□□□2234□□0	118
22	90	-	533	245	383	2.1	6.667	GST09-2M□□□132C32	E84AV□□□2234□□0	118
20	82	-	486	268	419	2.0	7.305	GST09-2M□□□132C32	E84AV□□□2234□□0	118
18	75	-	442	295	461	1.8	8.027	GST09-2M□□□132C32	E84AV□□□2234□□0	118
16	67	-	394	331	517	1.6	9.010	GST09-2M□□□132C32	E84AV□□□2234□□0	118
15	61	-	360	362	566	3.1	9.856	GST11-2M□□□132C32	E84AV□□□2234□□0	118
14	58	-	346	377	590	1.5	10.267	GST09-2M□□□132C32	E84AV□□□2234□□0	118
13	54	-	317	412	643	2.8	11.200	GST11-2M□□□132C32	E84AV□□□2234□□0	118
13	51	-	304	429	670	1.4	11.667	GST09-2M□□□132C32	E84AV□□□2234□□0	118
12	49	-	287	454	710	1.3	12.362	GST09-2M□□□132C32	E84AV□□□2234□□0	118
12	48	-	282	462	722	2.6	12.571	GST11-2M□□□132C32	E84AV□□□2234□□0	118
11	43	-	253	516	807	1.2	14.048	GST09-2M□□□132C32	E84AV□□□2234□□0	118
10	42	-	249	525	820	2.4	14.286	GST11-2M□□□132C32	E84AV□□□2234□□0	118
9.8	40	-	234	557	870	1.3	15.156	GST09-2M□□□132C32	E84AV□□□2234□□0	118
9.6	39	-	231	566	884	2.6	15.400	GST11-2M□□□132C32	E84AV□□□2234□□0	118
8.6	35	-	206	633	989	1.2	17.222	GST09-2M□□□132C32	E84AV□□□2234□□0	118
8.5	34	-	203	643	1005	2.3	17.500	GST11-2M□□□132C32	E84AV□□□2234□□0	118
7.4	30	-	177	737	1151	2.9	20.044	GST14-2M□□□132C32	E84AV□□□2234□□0	118
7.3	30	-	175	746	1165	2.0	20.289	GST11-2M□□□132C32	E84AV□□□2234□□0	118
7.2	29	-	173	755	1179	1.1	20.533	GST09-2M□□□132C32	E84AV□□□2234□□0	118
6.5	26	-	156	837	1308	2.9	22.778	GST14-2M□□□132C32	E84AV□□□2234□□0	118
6.4	26	-	154	847	1324	1.9	23.056	GST11-2M□□□132C32	E84AV□□□2234□□0	118
6.3	26	-	152	858	1340	1.0	23.333	GST09-2M□□□132C32	E84AV□□□2234□□0	118
6.0	24	-	145	903	1411	2.7	24.567	GST14-2M□□□132C32	E84AV□□□2234□□0	118
5.9	24	-	142	916	1432	0.9	24.933	GST09-2M□□□132C32	E84AV□□□2234□□0	118
5.9	24	-	142	916	1432	1.7	24.933	GST11-2M□□□132C32	E84AV□□□2234□□0	118
5.3	22	-	127	1026	1603	2.7	27.917	GST14-2M□□□132C32	E84AV□□□2234□□0	118
5.2	21	-	125	1041	1627	1.5	28.333	GST11-2M□□□132C32	E84AV□□□2234□□0	118
4.6	19	-	110	1186	1853	1.3	32.267	GST11-2M□□□132C32	E84AV□□□2234□□0	118
4.6	19	-	110	1186	1853	2.2	32.267	GST14-2M□□□132C32	E84AV□□□2234□□0	118
4.0	16	-	97	1348	2105	1.2	36.667	GST11-2M□□□132C32	E84AV□□□2234□□0	118
4.0	16	-	97	1348	2105	2.2	36.667	GST14-2M□□□132C32	E84AV□□□2234□□0	118
3.8	15	-	91	1439	2249	1.1	39.160	GST11-2M□□□132C32	E84AV□□□2234□□0	118





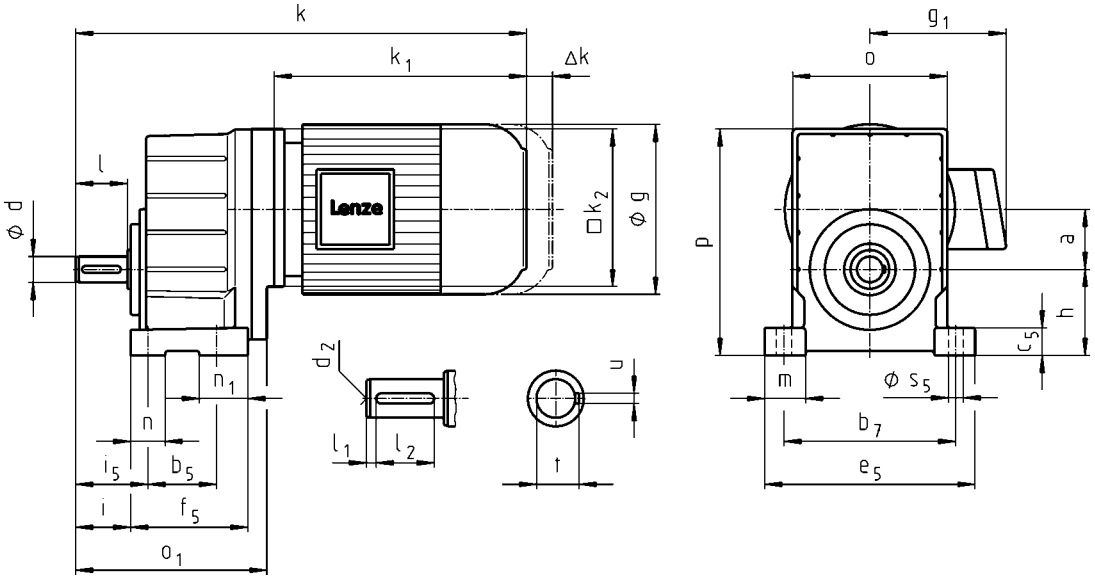
120 Hz: P_N = 22.00 kW

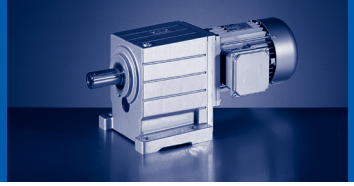
n_{22} / n_2 = 1 ... 24.0

n_1 = 147.9 ... 3550 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
3.8	15	-	91	1439	2249	1.8	39.160	GST14-2M□□□132C32	E84AV□□□2234□□0	118
3.7	15	-	88	1455	2273	1.7	40.185	GST14-3M□□□132C32	E84AV□□□2234□□0	124
3.6	15	-	87	1478	2309	0.9	40.816	GST11-3M□□□132C32	E84AV□□□2234□□0	124
3.5	14	-	83	1541	2408	1.7	42.580	GST14-3M□□□132C32	E84AV□□□2234□□0	124
3.4	14	-	81	1593	2489	0.9	44.000	GST11-3M□□□132C32	E84AV□□□2234□□0	124
3.3	14	-	80	1635	2555	1.1	44.500	GST11-2M□□□132C32	E84AV□□□2234□□0	118
3.3	14	-	80	1635	2555	2.0	44.500	GST14-2M□□□132C32	E84AV□□□2234□□0	118
3.1	12	-	73	1752	2737	1.7	48.386	GST14-3M□□□132C32	E84AV□□□2234□□0	124
3.0	12	-	72	1819	2842	1.4	49.500	GST14-2M□□□132C32	E84AV□□□2234□□0	118
3.0	12	-	71	1810	2828	0.9	50.000	GST11-3M□□□132C32	E84AV□□□2234□□0	124
2.8	11	-	67	1924	3006	1.5	53.148	GST14-3M□□□132C32	E84AV□□□2234□□0	124
2.6	11	-	63	2067	3230	1.4	56.250	GST14-2M□□□132C32	E84AV□□□2234□□0	118
2.5	10	-	60	2147	3355	1.5	59.321	GST14-3M□□□132C32	E84AV□□□2234□□0	124
2.1	8.7	-	51	2499	3905	1.2	69.042	GST14-3M□□□132C32	E84AV□□□2234□□0	124
1.9	7.7	-	45	2840	4438	1.2	78.457	GST14-3M□□□132C32	E84AV□□□2234□□0	124
1.6	6.4	-	38	3386	5291	1.0	93.541	GST14-3M□□□132C32	E84AV□□□2234□□0	124
1.5	6.2	-	37	3481	5439	1.0	96.157	GST14-3M□□□132C32	E84AV□□□2234□□0	124
1.4	5.6	-	33	3848	6012	0.9	106.296	GST14-3M□□□132C32	E84AV□□□2234□□0	124

GST□□-1M VBR


k
k1
Δk
l
ϕ d
Lenze
□k2
ϕ g
d2
l1
l2
u
t
n1
n
i5
b5
i
f5
o1
g1
o
p
a
h
c5
m
ϕ s5
b7
e5



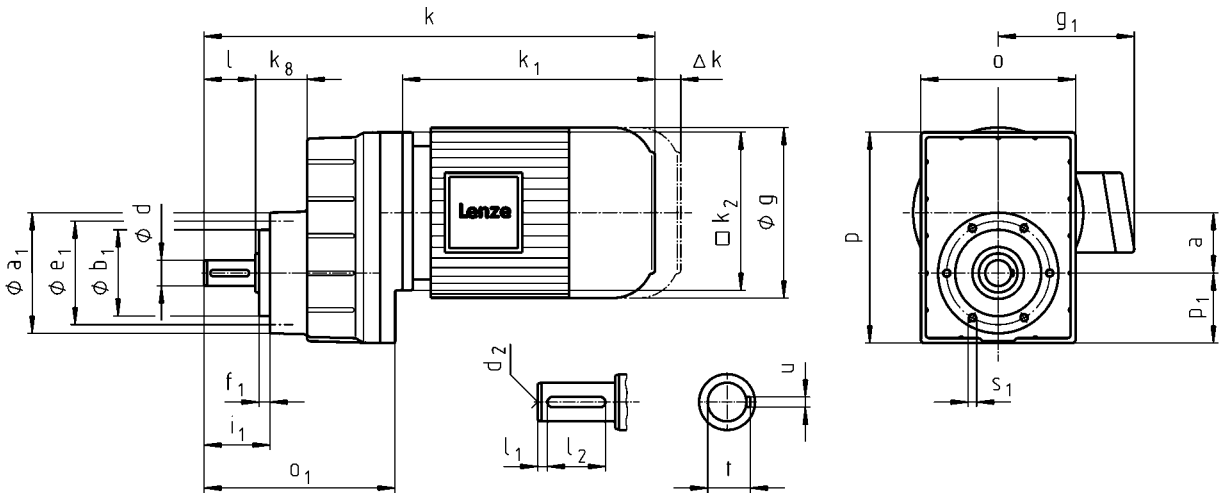
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GST04		331	351	373					
GST05		352	372	394	454	504			
GST06		375	395	417	477	527	572		
GST07				446	506	556	601	649	
GST09					549	599	644	692	

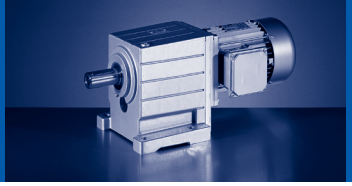
	a	h[1)]	o[1)]	p[1)]
GST04	36	50	100	138
GST05	45	63	115	168
GST06	56	80	145	211
GST07	70	100	180	264
GST09	89	125	222	329

	d	d_2	l	l_1	l_2	u	t	i	i_5	o_1	b_5	b_7	c_5	e_5	f_5	m	n	n_1	s_5
	k6																		
GST04	16	M5	32	6	20	5	18	35	45	134	55	105	17	128	80	24	20	25	9
GST05	20	M6	40	6	28	6	22.5	43	56	165	70	125	22	154	99	32	26	29	11
GST06	25	M10	50	4	40	8	28	53	68	191	72	160	27	194	115	37	30	43	13.5
GST07	30	M10	60	7.5	45	8	33	64	84	223	80	200	35	245	137	48	40	57	18
GST09	40	M16	80	8.5	63	12	43	84	107	271	105	245	43	296	161	51	45	56	18

[1)] k_2 !

GST□□-1M VCR


k
l
k 8
k 1
Δ k
g 1
o
Lenze
□ k 2
ϕ g
ϕ a 1
ϕ e 1
ϕ b 1
ϕ d
p
a
p 1
f 1
i 1
o 1
d 2
l 1
l 2
u
t
s 1



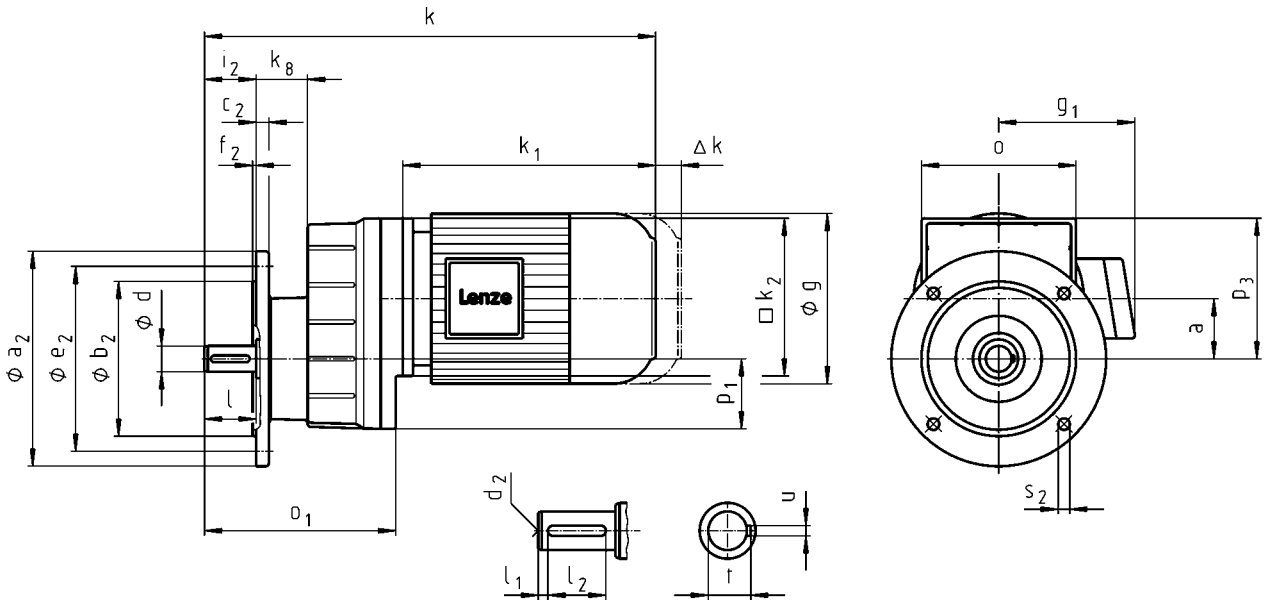
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GST04		331	351	373					
GST05		352	372	394	454	504			
GST06		375	395	417	477	527	572		
GST07				446	506	556	601	649	
GST09					549	599	644	692	

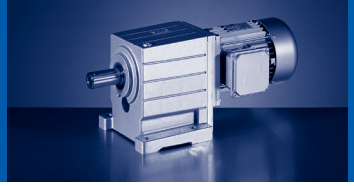
	a	k_8	o[1)]	p[1)]	p_1
GST04	36	35	100	129	41
GST05	45	43	115	156	51
GST06	56	48	145	194	63
GST07	70	60	180	245	82
GST09	89	74	222	304	101

	d	d_2	l	l_1	l_2	u	t	i_1	o_1	a_1	b_1	e_1	f_1	s_1
	k6										h7			
GST04	16	M5	32	6	20	5	18	43	134	72	48	61	8	M5x10
GST05	20	M6	40	6	28	6	22.5	52	165	88	58	74	9	M6x10
GST06	25	M10	50	4	40	8	28	64	191	109	70	90	11	M8x14
GST07	30	M10	60	7.5	45	8	33	77	223	140	100	120	13	M10x18
GST09	40	M16	80	8.5	63	12	43	100	271	174	120	145	15	M12x20

[1)] k_2 !

GST□□-1M VCK


k
i2
k8
c2
f2
k1
Δk
Lenze
□k2
ϕg
p1
ϕa2
ϕe2
ϕb2
ϕd
l
o1
d2
l1
l2
u
t
g1
o
a
p3
s2



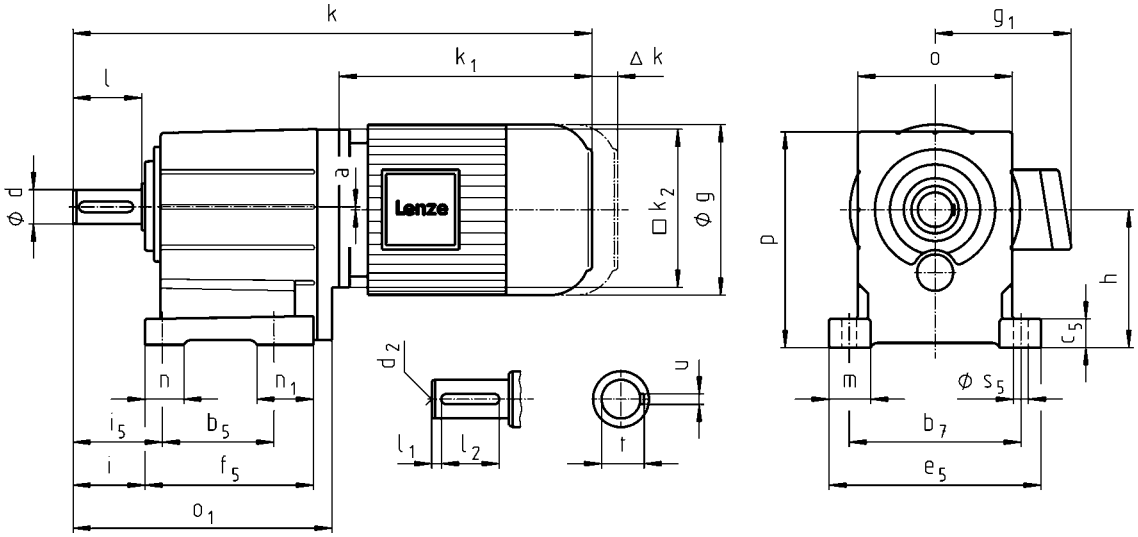
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GST04		331	351	373					
GST05		352	372	394	454	504			
GST06		375	395	417	477	527	572		
GST07				446	506	556	601	649	
GST09					549	599	644	692	

	a	k_8	$o^{1)}$	p_1	$p_3{}^{1)}$
GST04	36	35	100	41	88
GST05	45	43	115	51	105
GST06	56	48	145	63	131
GST07	70	60	180	82	164
GST09	89	74	222	101	204

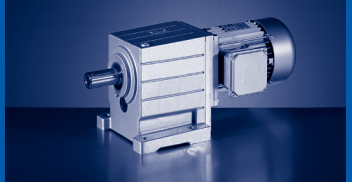
	d	d_2	l	l_1	l_2	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	k6										j7				
GST04	16	M5	32	6	20	5	18	32	134	120 140 160	80 95 110	10 10 10	100 115 130	3 3 3.5	7 9 9
GST05	20	M6	40	6	28	6	22.5	40	165	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	7 9 9 11
GST06	25	M10	50	4	40	8	28	50	191	160 200	110 130	12 12	130 165	3.5 3.5	9 11
GST07	30	M10	60	7.5	45	8	33	60	223	200 250	130 180	14 15	165 215	3.5 4	11 13.5
GST09	40	M16	80	8.5	63	12	43	80	271	250 300	180 230	16 18	215 265	4 4	13.5 13.5

[1] k_2 !

GST□□-2M VBR



		063C32 063C42	071C32 071C42	080C32 080C42	090C32
g		123	139	156	176
g_1	MFEMAXX	100	109	141	146
	MFEMABR	107	118	132	137
k_1	MFEMAXX	187	207	224.5	274
k_2		120		145	180
Δ k	MFEMABR	40	52	73	68
	MFFMAXX	128			
	MFFMABR	170	165	183	181
		k			
GST03		329			
GST04		371	391	413	
GST05		401	421	443	503
GST06		427	447	469	529
GST07				525	585
GST09					648



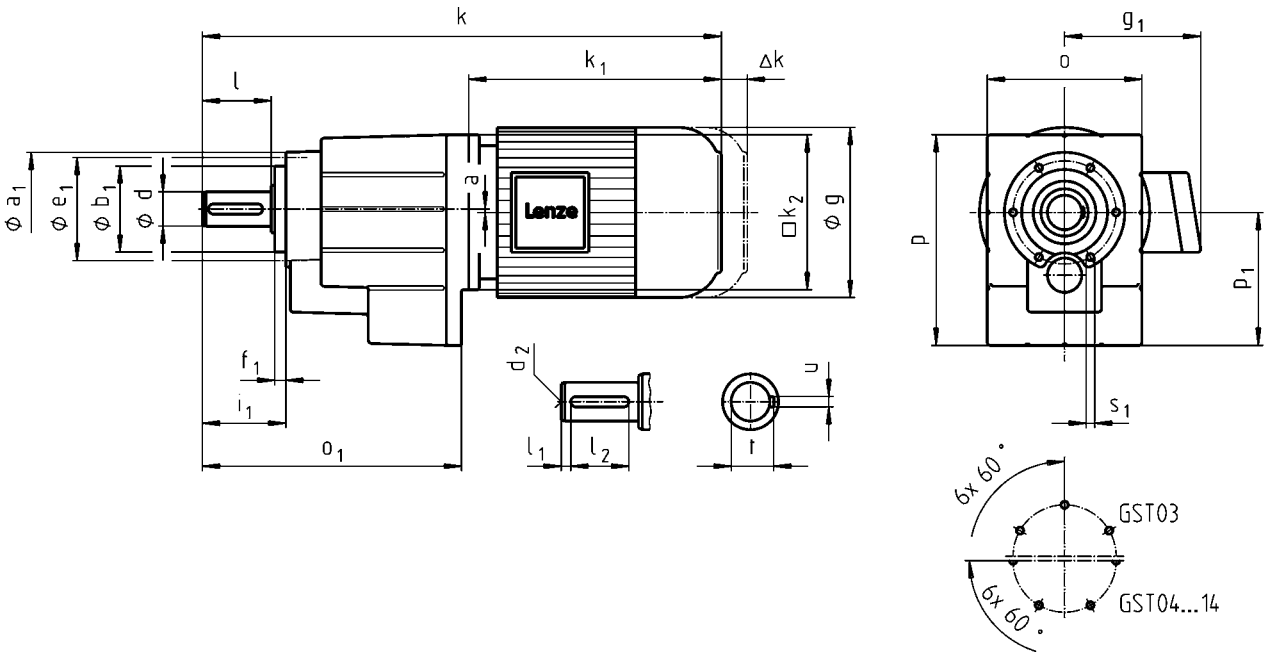
		100C12	100C32	112C22	132C12 132C22	132C32
g		194		218	258	
g_1	MFEMAXX	157		167	195	
	MFEMABR	147		158	187	
k_1	MFEMAXX	324		363	403	
k_2		180		222	265	
Δ k	MFEMABR	76		90	109.5	
	MFFMAXX	109		102	115	
	MFFMABR	170		183	201.5	
		k				
GST05		553				
GST06		579		624		
GST07		635		680	728	
GST09		698		743	791	
GST11		755		800	848	
GST14				890	938	

	a	h[1)]	o[1)]	p[1)]
GST03	2	65	90	101
GST04	0	80	100	132
GST05	1	100	115	158.5
GST06	2	125	145	198
GST07	3	160	180	251
GST09	4	200	222	311
GST11	4	250	270	385
GST14	6	315	328	479

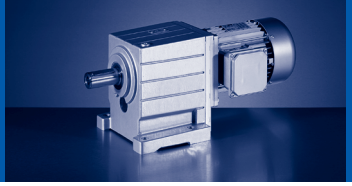
	d	d	d_2	l	l_1	l_2	u	t	i	i_5	o_1	b_5	b_7	c_5	e_5	f_5	m	n	n_1	s_5
	k6	m6																		
GST03	14 20		M5 M6	28 40	4 5	20 28	5 6	16 22.5	34 46	40 52	127 139	60	91	11	105	84	20			6.6
GST04	20		M6	40	5	28	6	22.5	43	53	174	76	105	18	129	112	24.5	20	36	9
GST05	25		M10	50	4	40	8	28	53	66	214	90	125	23	155	139	32.5	26	49	11
GST06	30		M10	60	6	45	8	33	64	79	243	106	160	28	196	157	38	35	52	13.5
GST07	40		M16	80	7	63	12	43	84	104	302	130	200	34	247	196	48.5	45	66	18
GST09	50		M16	100	8	80	14	53.5	105	127.5	370	165	245	44	298	239	54	48	74	18
GST11		60	M20	120	8	100	18	64	125	155	433	200	300	54	368	280	69	65	80	22
GST14		80	M20	160	15	125	22	85	165	200	533	250	380	65	460	340	85	85	91	26

[1)] k_2 !

GST□□-2M VCR



		063C32 063C42	071C32 071C42	080C32 080C42	090C32
g		123	139	156	176
g_1	MFEMAXX	100	109	141	146
	MFEMABR	107	118	132	137
k_1	MFEMAXX	187	207	224.5	274
k_2		120		145	180
Δ k	MFEMABR	40	52	73	68
	MFFMAXX	128			
	MFFMABR	170	165	183	181
		k			
GST03		329			
GST04		371	391	413	
GST05		401	421	443	503
GST06		427	447	469	529
GST07				525	585
GST09					648



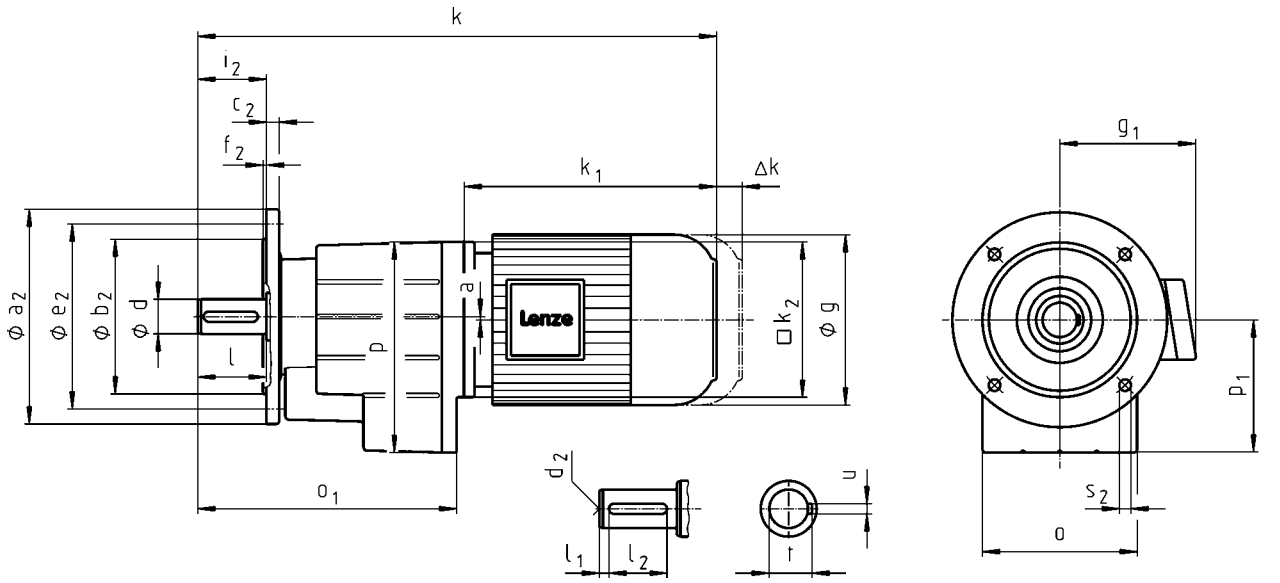
		100C12	100C32	112C22	132C12 132C22	132C32
g		194		218	258	
g_1	MFEMAXX	157		167	195	
	MFEMABR	147		158	187	
k_1	MFEMAXX	324		363	403	
k_2		180		222	265	
Δ k	MFEMABR	76		90	109.5	
	MFFMAXX	109		102	115	
	MFFMABR	170		183	201.5	
		k				
GST05		553				
GST06		579		624		
GST07		635		680	728	
GST09		698		743	791	
GST11		755		800	848	
GST14				890	938	

	a	o[1)]	p[1)]	p_1
GST03	2	90	100	64
GST04	0	100	129	77
GST05	1	115	156	98
GST06	2	145	194	121
GST07	3	180	245	155
GST09	4	222	304	194
GST11	4	270	378	243
GST14	6	328	470	306

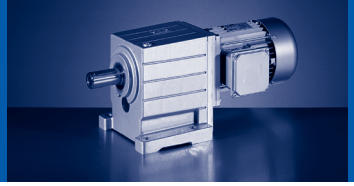
	d	d	d_2	l	l_1	l_2	u	t	i_1	o_1	a_1	b_1	e_1	f_1	s_1
	k6	m6										h7			
GST03	14 20		M5 M6	28 40	4 5	20 28	5 6	16 22.5	39 51	127 139	71	48	61	8	M5x10
GST04	20		M6	40	5	28	6	22.5	51	174	72	48	61	8	M5x10
GST05	25		M10	50	4	40	8	28	62	214	88	58	74	9	M6x12
GST06	30		M10	60	6	45	8	33	74	243	109	70	90	10	M8x14
GST07	40		M16	80	7	63	12	43	97	302	140	100	120	13	M10x18
GST09	50		M16	100	8	80	14	53.5	120	370	174	120	145	15	M12x20
GST11		60	M20	120	8	100	18	64	143	433	215	150	185	18	M16x26
GST14		80	M20	160	15	125	22	85	187	533	265	195	230	22	M20x34

[1)] k_2 !

GST□□-2M VCK



		063C32 063C42	071C32 071C42	080C32 080C42	090C32
g		123	139	156	176
g_1	MFEMAXX	100	109	141	146
	MFEMABR	107	118	132	137
k_1	MFEMAXX	187	207	224.5	274
k_2		120		145	180
Δ k	MFEMABR	40	52	73	68
	MFFMAXX	128			
	MFFMABR	170	165	183	181
		k			
GST03		329			
GST04		371	391	413	
GST05		401	421	443	503
GST06		427	447	469	529
GST07				525	585
GST09					648



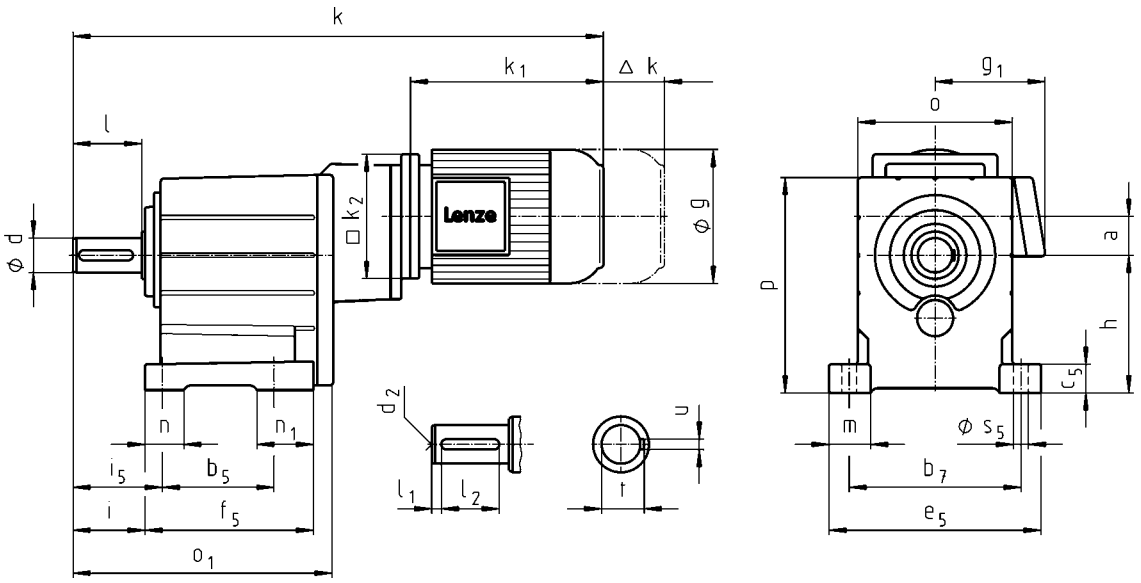
		100C12	100C32	112C22	132C12 132C22	132C32
g		194		218	258	
g_1	MFEMAXX	157		167	195	
	MFEMABR	147		158	187	
k_1	MFEMAXX	324		363	403	
k_2		180		222	265	
Δ k	MFEMABR	76		90	109.5	
	MFFMAXX	109		102	115	
	MFFMABR	170		183	201.5	
		k				
GST05		553				
GST06		579		624		
GST07		635		680	728	
GST09		698		743	791	
GST11		755		800	848	
GST14				890	938	

	a	o[1)]	p[1)]	p_1
GST03	2	90	100	64
GST04	0	100	129	77
GST05	1	115	156	98
GST06	2	145	194	121
GST07	3	180	245	155
GST09	4	222	304	194
GST11	4	270	378	243
GST14	6	328	470	306

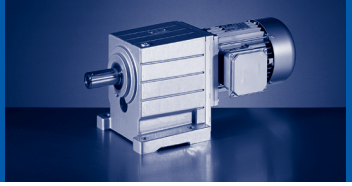
	d	d	d_2	l	l_1	l_2	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	k6	m6										j7				
GST03	14 20		M5 M6	28 40	4 5	20 28	5 6	16 22.5	28 40	127 139	120 140 160	80 95 110	10 10 10	100 115 130	3 3 3.5	7 9 9
GST04	20		M6	40	5	28	6	22.5	40	174	120 140 160	80 95 110	10 10 10	100 115 130	3 3 3.5	7 9 9
GST05	25		M10	50	4	40	8	28	50	214	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	7 9 9 11
GST06	30		M10	60	6	45	8	33	60	243	160 200	110 130	12 12	130 165	3.5 3.5	9 11
GST07	40		M16	80	7	63	12	43	80	302	200 250	130 180	14 15	165 215	3.5 4	11 13.5
GST09	50		M16	100	8	80	14	53.5	100	370	250 300	180 230	16 18	215 265	4 4	13.5 13.5
GST11		60	M20	120	8	100	18	64	120	433	300 350	230 250	18 20	265 300	4 5	14 18
GST14		80	M20	160	15	125	22	85	160	533	350 400	250 300	22 24	300 350	5 5	18 18

[1)] k_2 !

GST□□-3M VBR



		063C32 063C42	071C32	071C42	080C32 080C42
g		123	139		156
g_1	MFEMAXX	100	109		141
	MFEMABR	107	118		132
k_1	MFEMAXX	187	207		224.5
k_2		120			145
Δ k	MFEMABR	40	52		73
	MFFMAXX	128			
	MFFMABR	170	165		183
		k			
GST05		477	497		
GST06		520	540		563
GST07		587	607		630
GST09		668	688		711
GST11					787



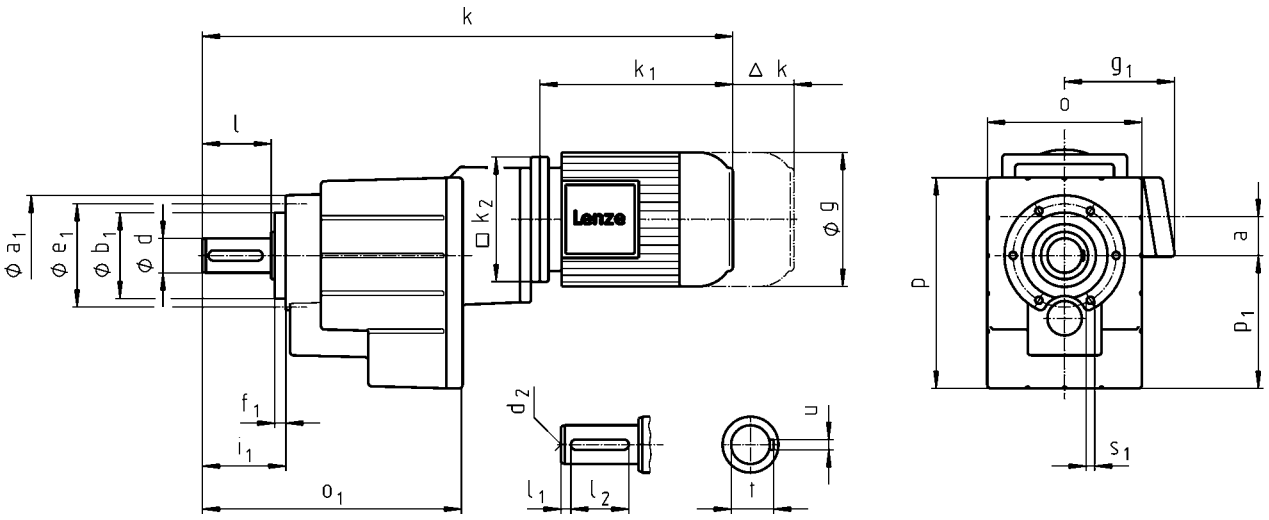
		090C32	100C12	100C32	112C22	132C12 132C22 132C32
g		176	194		218	258
g_1	MFEMAXX	146	157		167	195
	MFEMABR	137	147		158	187
k_1	MFEMAXX	274	324		363	403
k_2		180			222	265
Δ k	MFEMABR	68	76		90	109.5
	MFFMAXX	128	109		102	115
	MFFMABR	181	170		183	201.5
		k				
GST07		689	739			
GST09		770	820		865	
GST11		846	896		941	989
GST14		970	1020		1065	1113

	a	h	o[1]	p[1]
GST05	35	100	115	158.5
GST06	34	125	145	198
GST07	42	160	180	251
GST09	52	200	222	311
GST11	66	250	270	385
GST14	83	315	328	479

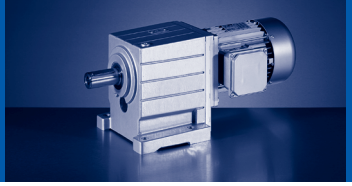
	d	d	d_2	l	l_1	l_2	u	t	i	i_5	o_1	b_5	b_7	c_5	e_5	f_5	m	n	n_1	s_5
	k6	m6																		
GST05	25		M10	50	4	40	8	28	53	66	208	90	125	23	155	139	32.5	26	49	11
GST06	30		M10	60	6	45	8	33	64	79	240	106	160	28	196	157	38	35	52	13.5
GST07	40		M16	80	7	63	12	43	84	104	302	130	200	34	247	196	48.5	45	66	18
GST09	50		M16	100	8	80	14	53.5	105	127.5	370	165	245	44	298	239	54	48	74	18
GST11		60	M20	120	8	100	18	64	125	155	433	200	300	54	368	280	69	65	80	22
GST14		80	M20	160	15	125	22	85	165	200	533	250	380	65	460	340	85	85	91	26

[1] k_2 !

GST□□-3M VCR



		063C32 063C42	071C32	071C42	080C32 080C42
g		123	139		156
g_1	MFEMAXX	100	109		141
	MFEMABR	107	118		132
k_1	MFEMAXX	187	207		224.5
k_2		120			145
Δ k	MFEMABR	40	52		73
	MFFMAXX	128			
	MFFMABR	170	165		183
		k			
GST05		477	497		
GST06		520	540		563
GST07		587	607		630
GST09		668	688		711
GST11					787



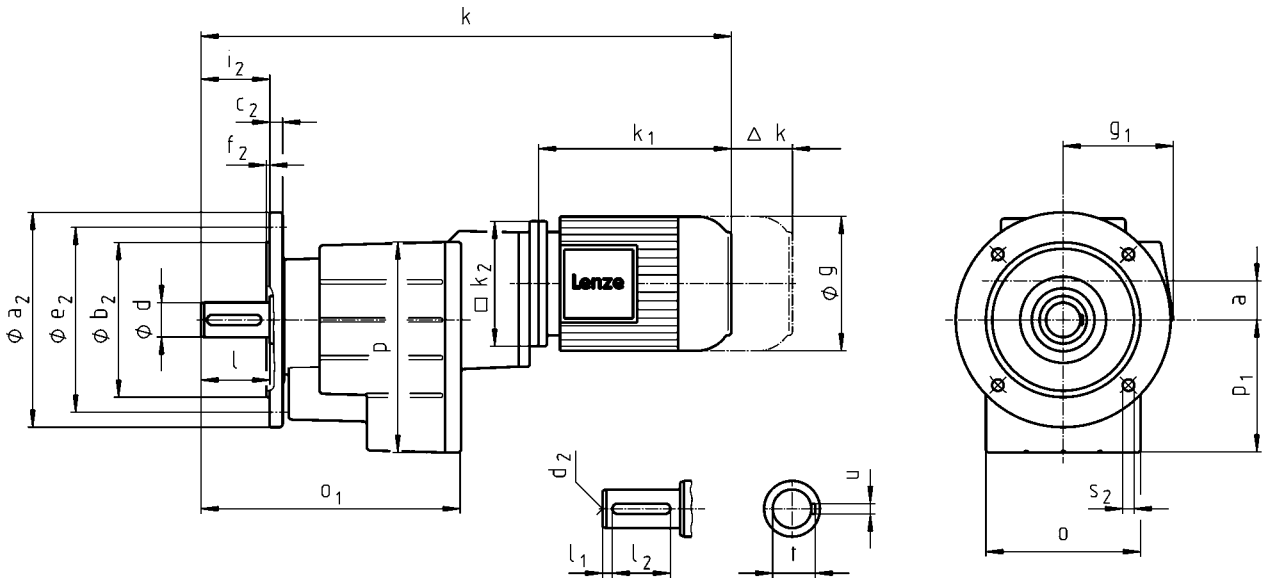
		090C32	100C12	100C32	112C22	132C12 132C22 132C32
g		176	194		218	258
g_1	MFEMAXX	146	157		167	195
	MFEMABR	137	147		158	187
k_1	MFEMAXX	274	324		363	403
k_2		180			222	265
Δ k	MFEMABR	68	76		90	109.5
	MFFMAXX	128	109		102	115
	MFFMABR	181	170		183	201.5
		k				
GST07		689	739			
GST09		770	820		865	
GST11		846	896		941	989
GST14		970	1020		1065	1113

	a	o[1)]	p[1)]	p_1
GST05	35	115	156	98
GST06	34	145	194	121
GST07	42	180	245	155
GST09	52	222	304	194
GST11	66	270	378	243
GST14	83	328	470	306

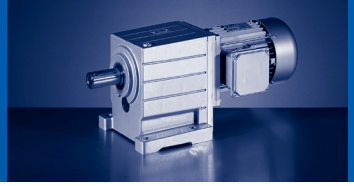
	d	d	d_2	l	l_1	l_2	u	t	i_1	o_1	a_1	b_1	e_1	f_1	s_1
	k6	m6										h7			
GST05	25		M10	50	4	40	8	28	62	208	88	58	74	9	M6x12
GST06	30		M10	60	6	45	8	33	74	240	109	70	90	10	M8x14
GST07	40		M16	80	7	63	12	43	97	302	140	100	120	13	M10x18
GST09	50		M16	100	8	80	14	53.5	120	370	174	120	145	15	M12x20
GST11		60	M20	120	8	100	18	64	143	433	215	150	185	18	M16x26
GST14		80	M20	160	15	125	22	85	187	533	265	195	230	22	M20x34

[1)] k_2 !

GST□□-3M VCK



		063C32 063C42	071C32	071C42	080C32 080C42
g		123	139		156
g_1	MFEMAXX	100	109		141
	MFEMABR	107	118		132
k_1	MFEMAXX	187	207		224.5
k_2		120			145
Δ k	MFEMABR	40	52		73
	MFFMAXX	128			
	MFFMABR	170	165		183
		k			
GST05		477	497		
GST06		520	540		563
GST07		587	607		630
GST09		668	688		711
GST11					787



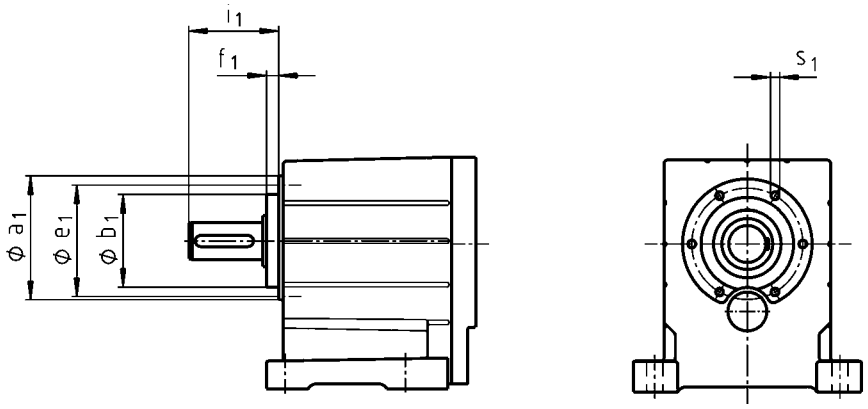
		090C32	100C12	100C32	112C22	132C12 132C22 132C32
g		176	194		218	258
g_1	MFEMAXX	146	157		167	195
	MFEMABR	137	147		158	187
k_1	MFEMAXX	274	324		363	403
k_2		180			222	265
Δ k	MFEMABR	68	76		90	109.5
	MFFMAXX	128	109		102	115
	MFFMABR	181	170		183	201.5
		k				
GST07		689	739			
GST09		770	820		865	
GST11		846	896		941	989
GST14		970	1020		1065	1113

	a	o[1)]	p[1)]	p_1
GST05	35	115	156	98
GST06	34	145	194	121
GST07	42	180	245	155
GST09	52	222	304	194
GST11	66	270	378	243
GST14	83	328	470	306

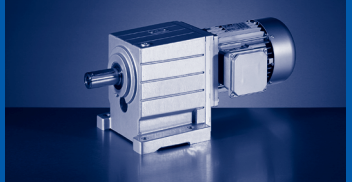
	d	d	d_2	l	l_1	l_2	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	k6	m6										j7				
GST05	25		M10	50	4	40	8	28	50	208	120 140 160 200	80 95 110 130	10 10 10 12	100 115 130 165	3 3 3.5 3.5	7 9 9 11
GST06	30		M10	60	6	45	8	33	60	240	160 200	110 130	12 12	130 165	3.5 3.5	9 11
GST07	40		M16	80	7	63	12	43	80	302	200 250	130 180	14 15	165 215	3.5 4	11 13.5
GST09	50		M16	100	8	80	14	53.5	100	370	250 300	180 230	16 18	215 265	4 4	13.5 13.5
GST11		60	M20	120	8	100	18	64	120	433	300 350	230 250	18 20	265 300	4 5	14 18
GST14		80	M20	160	15	125	22	85	160	533	350 400	250 300	22 24	300 350	5 5	18 18

[1)] k_2 !

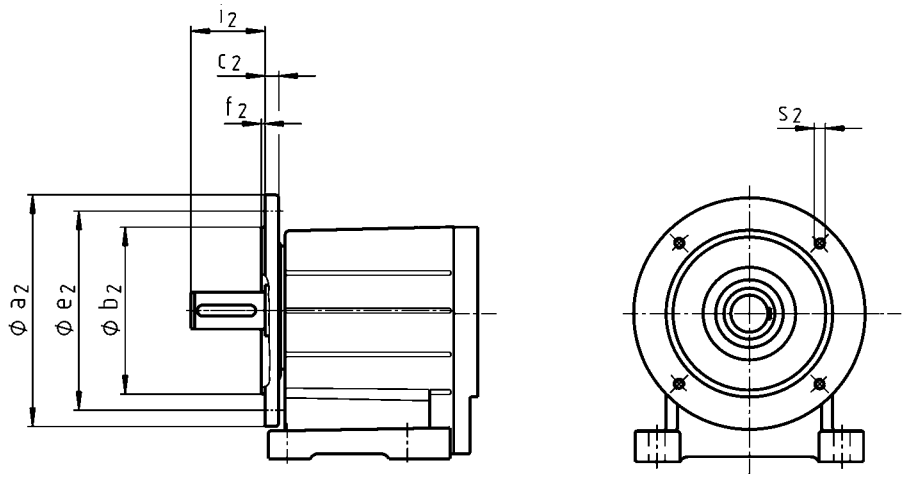
GST□□-2/3M VAR



	a_1	b_1	e_1	f_1	i_1	s_1
		h7				
GST04	72	48	61	8.0	51.0	M5x10
GST05	88	58	74	9.0	62.0	M6x12
GST06	109	70	90	10.0	74.0	M8x14
GST07	140	100	120	13.0	97.0	M10x18
GST09	174	120	145	15.0	120.0	M12x20
GST11	215	150	185	18.0	143.0	M16x26
GST14	265	195	230	22.0	187.0	M20x34

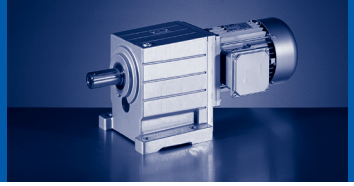


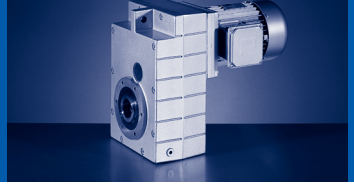
GST□□-2/3M VAL



	a_2	b_2	c_2	e_2	f_2	i_2	s_2
		j7					
GST04	120	80	10	100	3.0	40	M6
	140	95		115			M8
GST05	120	80		100		50	M6
	140	95		115			M8
	160	110		130	3.5		
GST06	200	130	12	165		60	M10
GST07			14			80	
	250	180	15	215	4.0		M12
GST09			16			100	
	300	230	18	265		120	
GST11	350	250	20	300	5.0		M16
GST14			22			160	
	400	300	24	350			

3



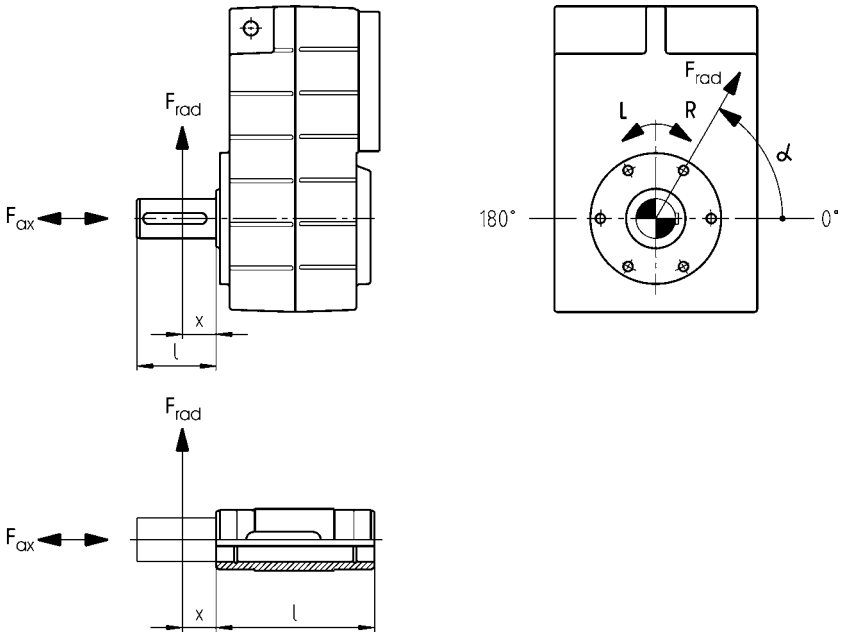


Permissible radial and axial forces at output

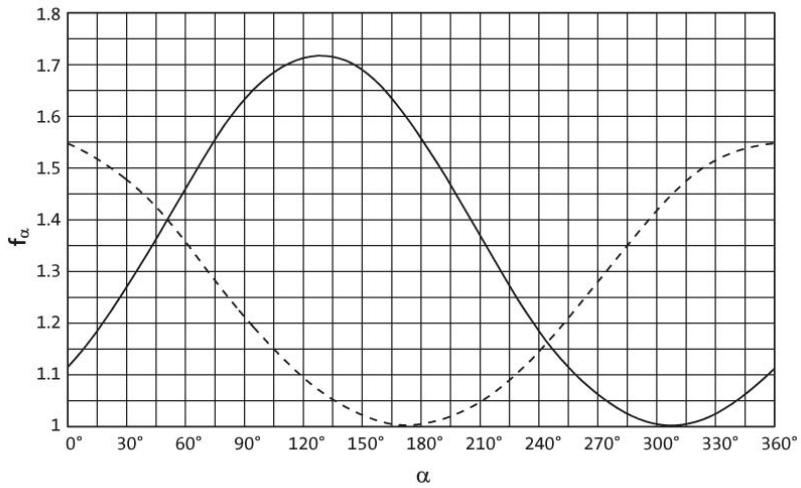
Permissible radial force
$F_{rad,per} = \min(f_w \times f_\alpha \times F_{rad,max}\ ;\ f_w \times F_{rad,max}$ at $n_2 \leq 16$ r/min)

Permissible axial force
$F_{ax,per} = F_{ax,max}$ if $F_{rad} = 0$

If F_{rad} **and** $F_{ax} \neq 0$; please contact Lenze.

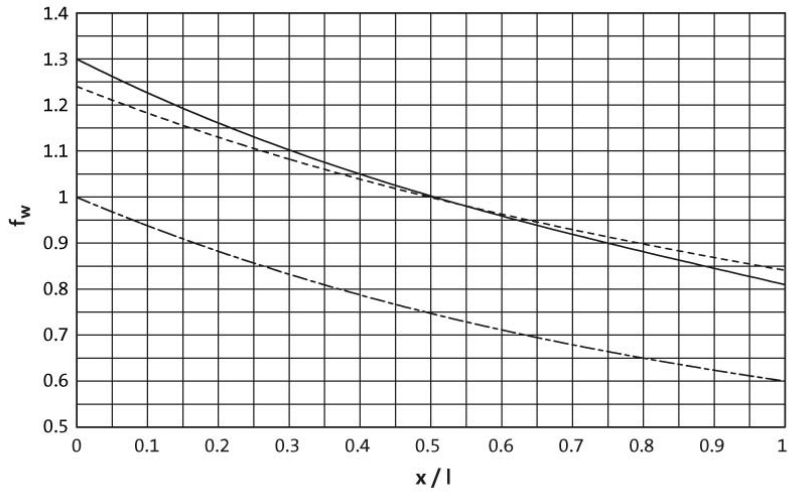


Effective direction factor f_α at output shaft



——— Direction of rotation R
— — — Direction of rotation L

Additional load factor f_w at output shaft

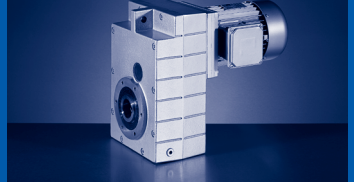


——— Solid shaft (V□□)
— — — Solid shaft with flange (V□K)
— · — Hollow shaft (H□□)

GFL□□-2/3□ H□□

Size	n_2 [r/min]									
Gearbox	1000	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Hollow shaft									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GFL04	2100	2700	2800	3200	3800	4600	5500	6300	7000	7000
GFL05	1800	2400	3000	3400	4100	5000	6000	7100	8000	8000
GFL06	2400	3300	4300	4700	5000	6600	8500	10800	12000	12000
GFL07	2200	3400	4500	5100	6400	7900	9300	11500	15000	16000
GFL09			5000	6000	7200	10500	13000	15000	22000	24000
GFL11			7300	8700	10000	14200	19000	23000	27000	30000
GFL14			8000	9000	9500	11500	14000	18000	30000	45000
	Max. axial force, Hollow shaft									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GFL04	1300	1700	2200	2600	3200	4200	5300	5500	5500	5500
GFL05	1600	2200	2800	3600	4200	5900	6600	6600	6600	6600
GFL06	2400	3200	4000	5200	6000	8500	10000	10000	10000	10000
GFL07	2000	2700	3400	4700	6000	8500	12000	14000	14000	14000
GFL09			3100	4200	5800	10000	13500	17000	21000	21000
GFL11			4700	6000	7500	14000	19000	25000	27000	27000
GFL14			4000	5000	6200	7500	11000	17500	31000	35000

- Application of force F_{rad}: at hollow shaft end face (x = 0)
- $F_{ax,max}$ only valid with F_{rad} = 0
- Neither radial nor axial forces are permissible for the hollow shaft with shrink disc (S□□).



GFL□□-2/3□ V□R

Size	n_2 [r/min]									
Gearbox	1000	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft without flange									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GFL04	1650	2100	2300	2700	3200	3600	3600	3600	3600	3600
GFL05	1400	1900	2400	2700	3200	4000	4800	5800	6200	6200
GFL06	1850	2500	3200	3600	3900	5100	6500	8400	9000	9000
GFL07	1650	2600	3200	3600	3900	5100	6500	8400	9000	9000
GFL09 [1]			3800	4400	5500	8000	10000	12000	18000	18000
GFL11 [1]			5500	6300	7300	11200	14500	17400	20500	23000
GFL14			47000	54000	62000	65000	65000	65000	65000	65000
	Max. axial force, Solid shaft without flange									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GFL04	1300	1700	2200	2600	3200	4200	5300	5500	5500	5500
GFL05	1600	2200	2800	3600	4200	5900	6600	6600	6600	6600
GFL06	2400	3200	4000	5200	6000	8500	10000	10000	10000	10000
GFL07	2000	2700	3400	4700	6000	8500	12000	14000	14000	14000
GFL09 [1]			3100	4200	5800	10000	13500	17000	21000	21000
GFL11 [1]			4700	6000	7500	14000	19000	25000	27000	27000
GFL14			25000	27000	29000	32000	35000	35000	35000	35000

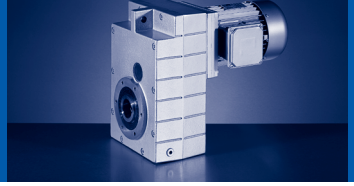
[1] Reinforced output shaft bearings are available on request for V□R versions.

- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0

GFL□□-2/3□ V□K

Size	n_2 [r/min]									
Gearbox	**1000**	**630**	**400**	**250**	**160**	**100**	**63**	**40**	**25**	**≤16**
	Max. radial force, Solid shaft with flange									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GFL04	2300	2800	3200	3700	4400	4600	4600	4600	4600	4600
GFL05	2900	3700	4300	5100	5900	6800	7000	7000	7000	7000
GFL06	4000	5000	6100	7000	7800	9600	10000	10000	10000	10000
GFL07	4000	5200	6400	7400	8900	10500	12000	13000	14000	14000
GFL09			7800	9000	10500	14000	15000	15000	15000	15000
GFL11			12500	14500	17000	21500	26000	30000	30000	30000
GFL14			18000	20000	23000	27500	32000	38000	43000	43000
	Max. axial force, Solid shaft with flange									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GFL04	1300	1700	2200	2600	3200	4200	4400	4400	4400	4400
GFL05	1800	2400	3100	3900	4800	6400	6600	6600	6600	6600
GFL06	2500	3400	4300	5500	6500	8500	10000	10000	10000	10000
GFL07	3600	4800	6100	6500	7000	9500	11500	11500	11500	11500
GFL09			6100	6500	7000	9500	11500	11500	11500	11500
GFL11			6800	8500	10500	17000	22000	27000	27000	27000
GFL14			6000	8000	10000	13000	19000	26000	35000	35000

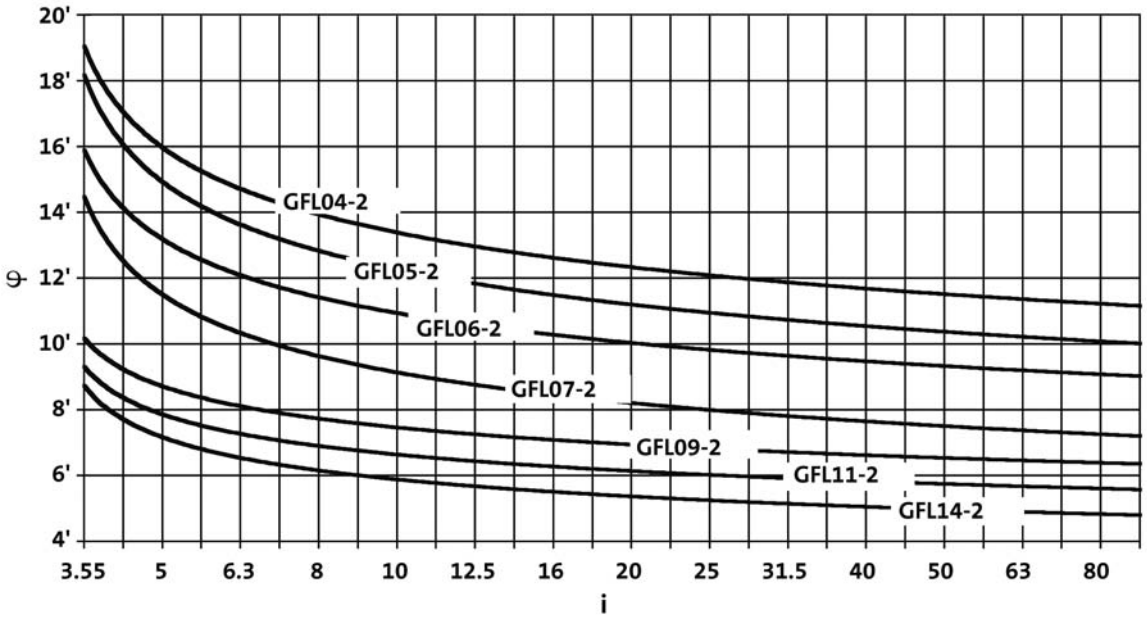
- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0



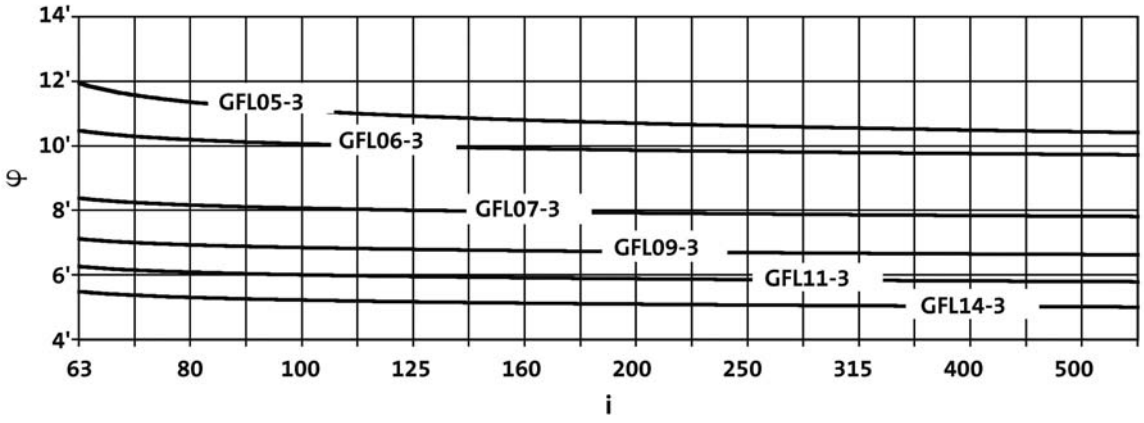
Output backlash in angular minutes

► Backlash φ depending on ratio i

GFL04...14-2



GFL04...14-3



4

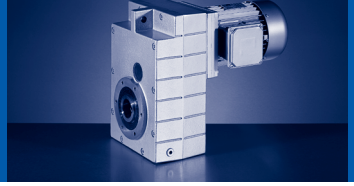
GFL□□-2

► Moment of inertia (J) depending on ratio i

Gearbox			GFL04
3.659	J	[kgcm²]	1.510
5.018	J	[kgcm²]	0.858
5.833	J	[kgcm²]	0.925
6.422	J	[kgcm²]	0.555
7.025	J	[kgcm²]	0.473
8.379	J	[kgcm²]	0.666
9.333	J	[kgcm²]	0.613
10.238	J	[kgcm²]	0.366
11.491	J	[kgcm²]	0.410
12.800	J	[kgcm²]	0.382
14.706	J	[kgcm²]	0.282
16.087	J	[kgcm²]	0.245
17.920	J	[kgcm²]	0.230
20.519	J	[kgcm²]	0.171
22.857	J	[kgcm²]	0.163
25.136	J	[kgcm²]	0.129
28.000	J	[kgcm²]	0.123
31.600	J	[kgcm²]	0.086
35.200	J	[kgcm²]	0.082
40.697	J	[kgcm²]	0.058
45.333	J	[kgcm²]	0.056
51.579	J	[kgcm²]	0.038
57.455	J	[kgcm²]	0.037
64.636	J	[kgcm²]	0.026
72.000	J	[kgcm²]	0.025
85.156	J	[kgcm²]	0.016
94.857	J	[kgcm²]	0.015

Gearbox			GFL05
3.333	J	[kgcm²]	1.677
4.571	J	[kgcm²]	2.133
5.133	J	[kgcm²]	2.372
5.667	J	[kgcm²]	2.329
6.400	J	[kgcm²]	0.822
7.040	J	[kgcm²]	1.470
7.771	J	[kgcm²]	1.450
9.010	J	[kgcm²]	0.951
9.946	J	[kgcm²]	0.885
11.360	J	[kgcm²]	1.082
12.800	J	[kgcm²]	1.012
14.538	J	[kgcm²]	0.746
15.904	J	[kgcm²]	0.603
17.920	J	[kgcm²]	0.609
20.286	J	[kgcm²]	0.428
22.857	J	[kgcm²]	0.434
24.850	J	[kgcm²]	0.345
28.000	J	[kgcm²]	0.331
32.344	J	[kgcm²]	0.204
36.444	J	[kgcm²]	0.195
40.233	J	[kgcm²]	0.148
45.333	J	[kgcm²]	0.142
52.067	J	[kgcm²]	0.093
58.667	J	[kgcm²]	0.090
63.190	J	[kgcm²]	0.068
71.200	J	[kgcm²]	0.064
80.763	J	[kgcm²]	0.043
91.000	J	[kgcm²]	0.042

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

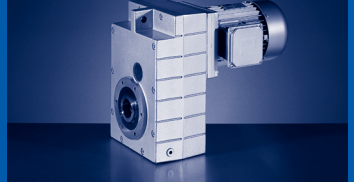


- Moment of inertia (J) depending on ratio i

Gearbox			GFL06
3.675	J	[kgcm²]	7.755
5.211	J	[kgcm²]	6.636
5.750	J	[kgcm²]	6.044
6.450	J	[kgcm²]	3.651
7.147	J	[kgcm²]	4.044
8.400	J	[kgcm²]	4.264
9.463	J	[kgcm²]	3.879
10.092	J	[kgcm²]	2.520
11.520	J	[kgcm²]	1.730
12.978	J	[kgcm²]	2.610
14.743	J	[kgcm²]	1.950
16.128	J	[kgcm²]	1.680
18.169	J	[kgcm²]	1.570
20.571	J	[kgcm²]	1.190
23.175	J	[kgcm²]	1.130
25.200	J	[kgcm²]	0.904
28.389	J	[kgcm²]	0.861
32.800	J	[kgcm²]	0.581
36.951	J	[kgcm²]	0.556
40.800	J	[kgcm²]	0.425
45.963	J	[kgcm²]	0.407
52.800	J	[kgcm²]	0.264
59.481	J	[kgcm²]	0.251
64.080	J	[kgcm²]	0.193
72.189	J	[kgcm²]	0.187
81.000	J	[kgcm²]	0.125
91.250	J	[kgcm²]	0.121

Gearbox			GFL07
3.350	J	[kgcm²]	19.570
4.643	J	[kgcm²]	11.988
5.159	J	[kgcm²]	11.120
5.695	J	[kgcm²]	18.094
6.400	J	[kgcm²]	9.831
7.150	J	[kgcm²]	11.878
8.324	J	[kgcm²]	13.113
9.379	J	[kgcm²]	12.037
9.714	J	[kgcm²]	8.030
11.538	J	[kgcm²]	8.520
13.000	J	[kgcm²]	7.970
14.200	J	[kgcm²]	6.350
15.904	J	[kgcm²]	5.270
17.920	J	[kgcm²]	4.980
20.286	J	[kgcm²]	3.470
22.857	J	[kgcm²]	3.268
24.850	J	[kgcm²]	2.645
28.000	J	[kgcm²]	2.525
32.344	J	[kgcm²]	1.690
36.444	J	[kgcm²]	1.610
39.642	J	[kgcm²]	1.250
44.667	J	[kgcm²]	1.200
52.067	J	[kgcm²]	0.783
58.667	J	[kgcm²]	0.753
63.190	J	[kgcm²]	0.573
71.200	J	[kgcm²]	0.555
79.875	J	[kgcm²]	0.366
90.000	J	[kgcm²]	0.358

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



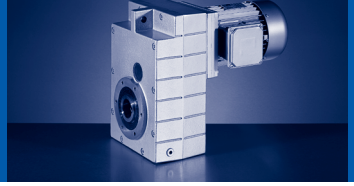
► Moment of inertia (J) depending on ratio i

Gearbox			GFL09
6.864	J	[kgcm²]	41.300
7.466	J	[kgcm²]	38.700
9.010	J	[kgcm²]	26.800
9.799	J	[kgcm²]	25.300
11.167	J	[kgcm²]	19.500
12.307	J	[kgcm²]	27.600
14.333	J	[kgcm²]	20.000
16.333	J	[kgcm²]	15.500
18.407	J	[kgcm²]	14.600
19.667	J	[kgcm²]	12.100
22.164	J	[kgcm²]	11.300
24.111	J	[kgcm²]	9.040
27.173	J	[kgcm²]	8.630
32.667	J	[kgcm²]	5.430
36.815	J	[kgcm²]	5.210
39.667	J	[kgcm²]	4.070
44.704	J	[kgcm²]	3.920
51.333	J	[kgcm²]	2.590
57.852	J	[kgcm²]	2.500
62.300	J	[kgcm²]	1.890
70.211	J	[kgcm²]	1.830
78.750	J	[kgcm²]	1.250
88.750	J	[kgcm²]	1.210

Gearbox			GFL11
6.864	J	[kgcm²]	124.000
7.466	J	[kgcm²]	116.000
9.010	J	[kgcm²]	79.600
9.799	J	[kgcm²]	74.800
10.720	J	[kgcm²]	65.000
12.480	J	[kgcm²]	81.500
14.538	J	[kgcm²]	58.400
15.904	J	[kgcm²]	51.300
17.920	J	[kgcm²]	48.300
20.286	J	[kgcm²]	36.100
22.857	J	[kgcm²]	34.300
24.850	J	[kgcm²]	26.900
28.000	J	[kgcm²]	25.700
32.739	J	[kgcm²]	17.100
36.889	J	[kgcm²]	16.500
40.233	J	[kgcm²]	12.600
45.333	J	[kgcm²]	12.200
52.067	J	[kgcm²]	8.080
58.667	J	[kgcm²]	7.810
63.190	J	[kgcm²]	5.900
71.200	J	[kgcm²]	5.720
79.875	J	[kgcm²]	3.870
90.000	J	[kgcm²]	3.760

Gearbox			GFL14
7.150	J	[kgcm²]	344.000
7.777	J	[kgcm²]	321.000
8.800	J	[kgcm²]	247.000
9.571	J	[kgcm²]	232.000
11.538	J	[kgcm²]	242.000
13.000	J	[kgcm²]	225.000
14.200	J	[kgcm²]	625.000
15.620	J	[kgcm²]	156.000
17.600	J	[kgcm²]	146.000
19.948	J	[kgcm²]	111.000
22.476	J	[kgcm²]	105.000
24.456	J	[kgcm²]	83.200
27.556	J	[kgcm²]	79.400
32.344	J	[kgcm²]	52.900
36.444	J	[kgcm²]	50.700
39.642	J	[kgcm²]	38.000
44.667	J	[kgcm²]	36.600
52.067	J	[kgcm²]	24.600
58.667	J	[kgcm²]	23.800
63.190	J	[kgcm²]	18.000
71.200	J	[kgcm²]	17.400
79.875	J	[kgcm²]	11.800
90.000	J	[kgcm²]	11.500

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



GFL□□-3

- Moment of inertia (J) depending on ratio i

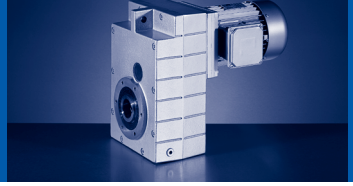
Gearbox			GFL05
61.653	J	[kgcm²]	0.202
78.639	J	[kgcm²]	0.145
90.123	J	[kgcm²]	0.197
101.547	J	[kgcm²]	0.196
114.952	J	[kgcm²]	0.142
129.524	J	[kgcm²]	0.141
140.817	J	[kgcm²]	0.109
158.667	J	[kgcm²]	0.109
177.027	J	[kgcm²]	0.073
199.467	J	[kgcm²]	0.073
227.989	J	[kgcm²]	0.051
256.889	J	[kgcm²]	0.050
288.948	J	[kgcm²]	0.033
325.576	J	[kgcm²]	0.033
362.100	J	[kgcm²]	0.023
408.000	J	[kgcm²]	0.023
477.052	J	[kgcm²]	0.014
537.524	J	[kgcm²]	0.014

Gearbox			GFL06
66.213	J	[kgcm²]	0.292
72.000	J	[kgcm²]	0.264
81.111	J	[kgcm²]	0.259
88.200	J	[kgcm²]	0.190
99.361	J	[kgcm²]	0.187
116.571	J	[kgcm²]	0.091
131.323	J	[kgcm²]	0.208
144.320	J	[kgcm²]	0.110
162.583	J	[kgcm²]	0.109
179.520	J	[kgcm²]	0.102
202.237	J	[kgcm²]	0.101
231.200	J	[kgcm²]	0.068
260.457	J	[kgcm²]	0.067
293.018	J	[kgcm²]	0.044
299.200	J	[kgcm²]	0.064
367.200	J	[kgcm²]	0.030
413.667	J	[kgcm²]	0.030
475.200	J	[kgcm²]	0.029
535.333	J	[kgcm²]	0.028
576.720	J	[kgcm²]	0.028
649.700	J	[kgcm²]	0.028
759.806	J	[kgcm²]	0.017
855.954	J	[kgcm²]	0.017

Gearbox			GFL07
65.306	J	[kgcm²]	0.790
72.452	J	[kgcm²]	0.894
81.636	J	[kgcm²]	0.880
92.413	J	[kgcm²]	0.609
104.127	J	[kgcm²]	0.601
113.206	J	[kgcm²]	0.448
127.556	J	[kgcm²]	0.442
147.347	J	[kgcm²]	0.275
166.025	J	[kgcm²]	0.271
183.285	J	[kgcm²]	0.194
206.519	J	[kgcm²]	0.192
224.636	J	[kgcm²]	0.180
253.111	J	[kgcm²]	0.179
290.706	J	[kgcm²]	0.112
327.556	J	[kgcm²]	0.111
352.811	J	[kgcm²]	0.081
397.533	J	[kgcm²]	0.080
430.222	J	[kgcm²]	0.104
522.133	J	[kgcm²]	0.075
562.391	J	[kgcm²]	0.073
633.680	J	[kgcm²]	0.073
718.786	J	[kgcm²]	0.047
809.900	J	[kgcm²]	0.046

Gearbox			GFL09
63.326	J	[kgcm²]	2.344
73.173	J	[kgcm²]	2.472
82.465	J	[kgcm²]	2.428
93.333	J	[kgcm²]	1.679
105.185	J	[kgcm²]	1.651
114.333	J	[kgcm²]	1.230
128.852	J	[kgcm²]	1.212
148.815	J	[kgcm²]	0.773
167.712	J	[kgcm²]	0.762
185.111	J	[kgcm²]	0.548
208.617	J	[kgcm²]	0.541
224.778	J	[kgcm²]	0.505
253.321	J	[kgcm²]	0.500
290.889	J	[kgcm²]	0.313
327.827	J	[kgcm²]	0.310
353.033	J	[kgcm²]	0.226
397.863	J	[kgcm²]	0.224
424.247	J	[kgcm²]	0.286
514.881	J	[kgcm²]	0.208
554.470	J	[kgcm²]	0.201
624.879	J	[kgcm²]	0.200
700.875	J	[kgcm²]	0.130
789.875	J	[kgcm²]	0.129

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

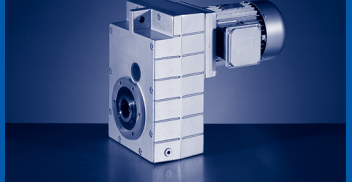


- Moment of inertia (J) depending on ratio i

Gearbox			GFL11
65.306	J	[kgcm²]	6.967
73.335	J	[kgcm²]	7.844
82.631	J	[kgcm²]	7.707
93.540	J	[kgcm²]	5.050
105.397	J	[kgcm²]	4.965
114.586	J	[kgcm²]	3.712
129.111	J	[kgcm²]	3.656
149.144	J	[kgcm²]	2.299
168.049	J	[kgcm²]	2.265
182.792	J	[kgcm²]	1.661
205.963	J	[kgcm²]	1.639
224.636	J	[kgcm²]	1.515
253.111	J	[kgcm²]	1.501
267.259	J	[kgcm²]	1.865
327.556	J	[kgcm²]	1.373
358.077	J	[kgcm²]	0.679
403.467	J	[kgcm²]	0.673
430.222	J	[kgcm²]	0.853
522.133	J	[kgcm²]	0.623
562.391	J	[kgcm²]	0.599
633.680	J	[kgcm²]	0.596
710.888	J	[kgcm²]	0.385
801.000	J	[kgcm²]	0.384

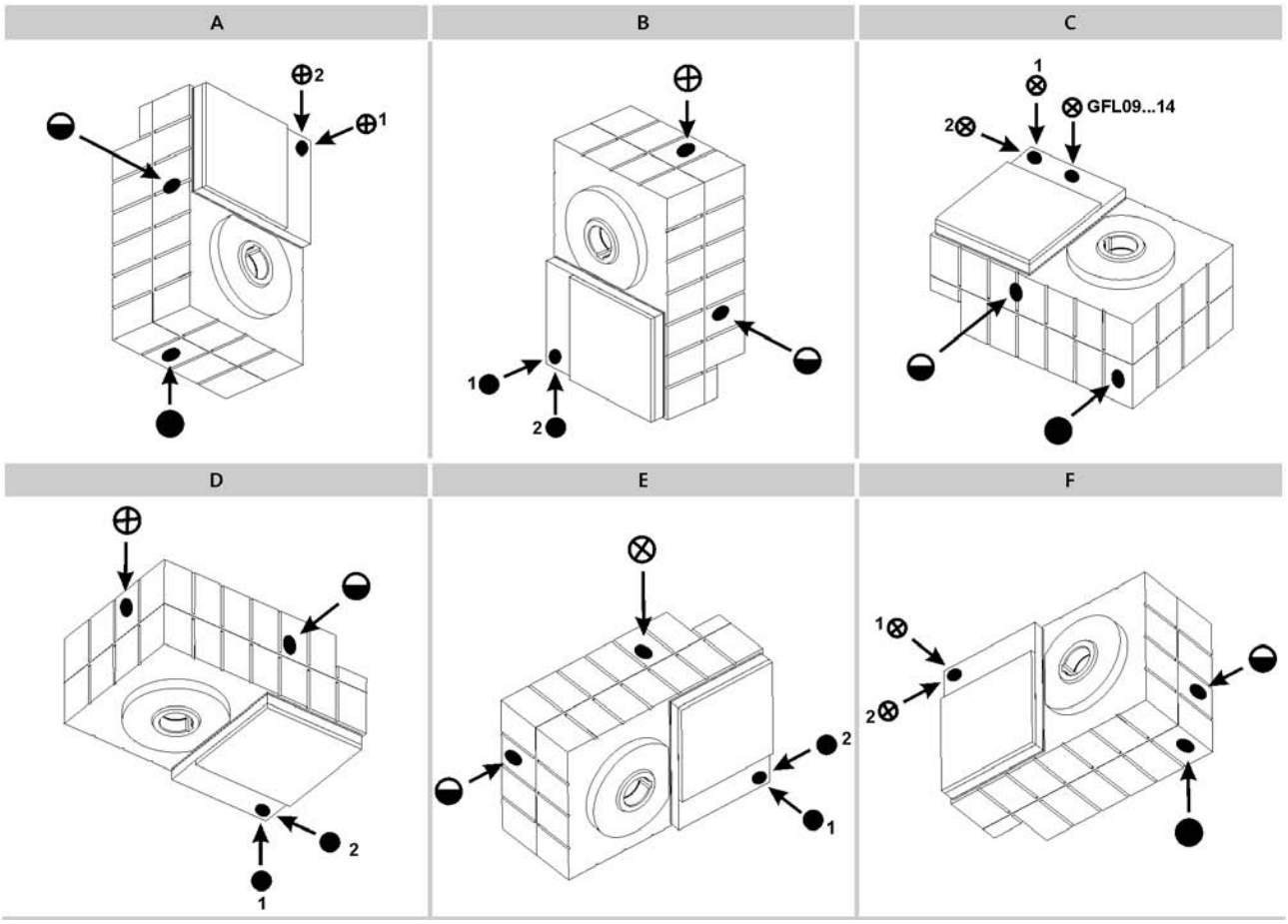
Gearbox			GFL14
64.296	J	[kgcm²]	26.316
68.708	J	[kgcm²]	19.862
77.418	J	[kgcm²]	19.381
85.037	J	[kgcm²]	21.590
104.889	J	[kgcm²]	9.324
114.126	J	[kgcm²]	8.318
128.593	J	[kgcm²]	8.144
136.889	J	[kgcm²]	16.779
156.148	J	[kgcm²]	5.917
170.074	J	[kgcm²]	6.962
202.074	J	[kgcm²]	3.692
224.636	J	[kgcm²]	4.742
253.111	J	[kgcm²]	4.697
273.778	J	[kgcm²]	5.759
332.444	J	[kgcm²]	4.300
352.811	J	[kgcm²]	2.163
397.533	J	[kgcm²]	2.145
430.222	J	[kgcm²]	2.727
522.133	J	[kgcm²]	1.984
562.391	J	[kgcm²]	1.910
633.680	J	[kgcm²]	1.903
710.888	J	[kgcm²]	1.259
801.000	J	[kgcm²]	1.254

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



Position of ventilation, sealing elements and oil level check

GFL05...14-2

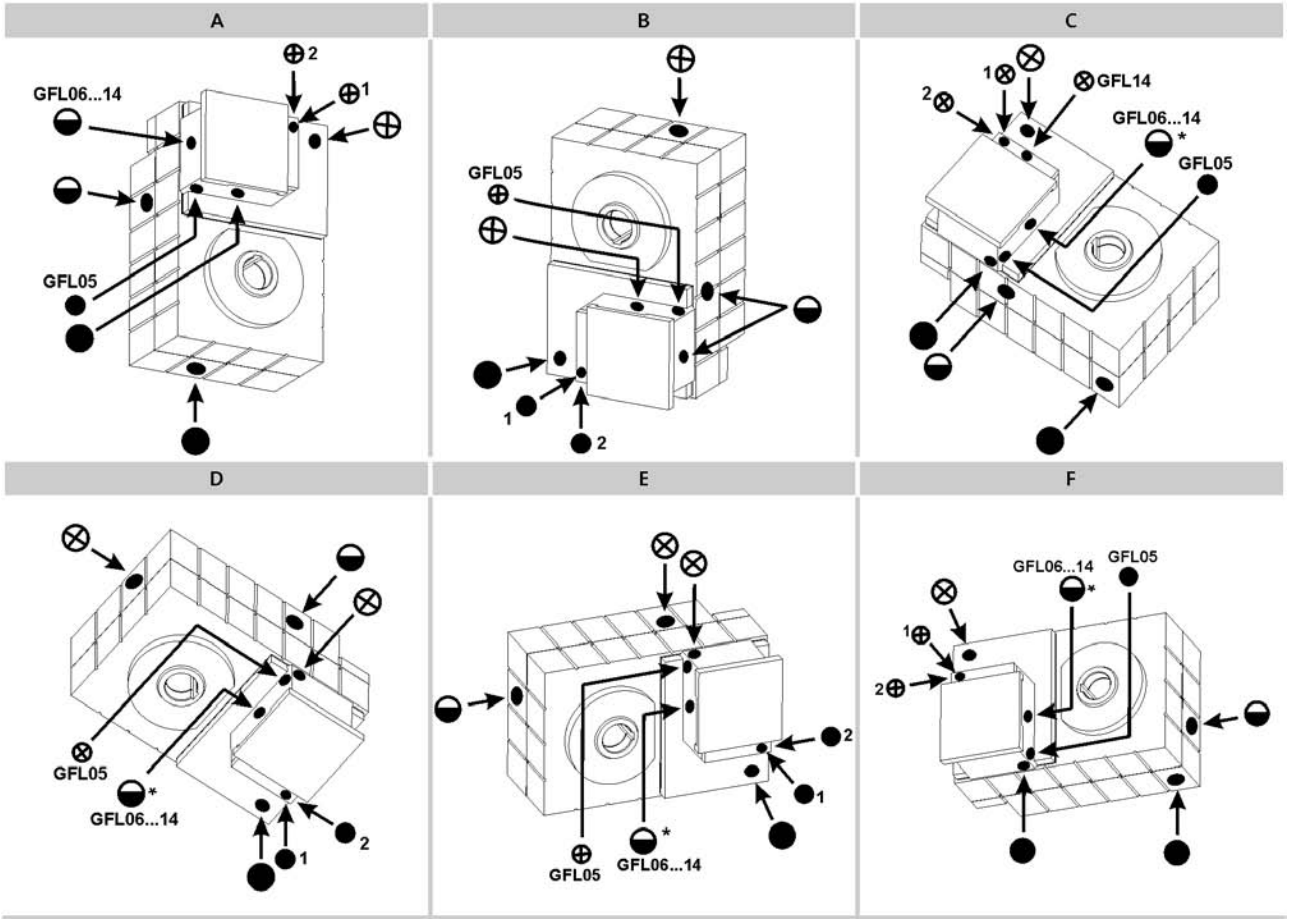


A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

Pos.1 standard
Pos.2 only with:
- GFL05-2M □□□ 090C□□
- GFL05-2M □□□ 100C□□
- GFL06-2M □□□ 112C□□

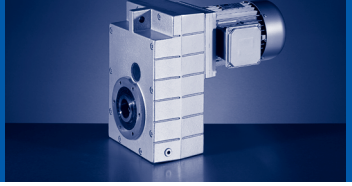
4

GFL05...14-3



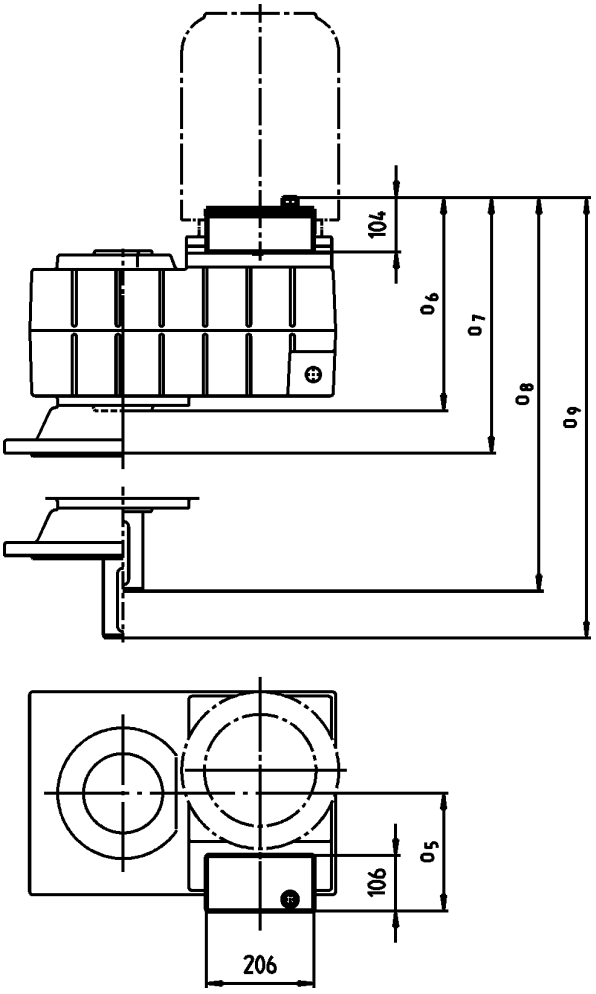
A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

Item 1 standard
Item 2 only with:
- GFL07-3M □□□ 090C□□
- GFL07-3M □□□ 100C□□
- GFL09-3M □□□ 112C□□



Compensation reservoir for mounting position C

GFL□□-2



Motor	090 100					112				
	o_5	o_6	o_7	o_8	o_9	o_5	o_6	o_7	o_8	o_9
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
GFL09	165	344	405	464	525	187	344	405	464	525
GFL11	154	387	448	547	608	176	391	452	551	612
GFL14						181	446	507	646	707

Motor	132									
	o_5	o_6	o_7	o_8	o_9	o_5	o_6	o_7	o_8	o_9
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
GFL09	204	344	405	464	525	204	344	405	464	525
GFL11	200	391	452	551	612	200	391	452	551	612
GFL14	211	446	507	646	707	211	446	507	646	707

- Terminal box position 3 not permitted.
- Foot in position 3 not permitted.

GFL□□-2M HAR / HBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	12	14	19	
GFL05	m	[kg]	25	28	32	40
GFL06	m	[kg]	41	43	47	56
GFL07	m	[kg]			75	83
GFL09	m	[kg]				132

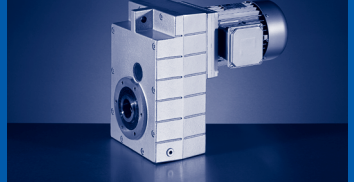
			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	49			
GFL06	m	[kg]	64	77		
GFL07	m	[kg]	91	104	134	
GFL09	m	[kg]	141	153	184	
GFL11	m	[kg]	233	245	274	
GFL14	m	[kg]		396	424	

GFL□□-2M HCR / HDR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	11	13	18	
GFL05	m	[kg]	24	26	31	39
GFL06	m	[kg]	38	40	45	53
GFL07	m	[kg]			71	79
GFL09	m	[kg]				125

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	47			
GFL06	m	[kg]	62	74		
GFL07	m	[kg]	87	100	130	
GFL09	m	[kg]	134	146	177	
GFL11	m	[kg]	219	231	260	
GFL14	m	[kg]		373	401	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GFL□□-2M HAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	14	16	22	
GFL05	m	[kg]	29	32	36	44
GFL06	m	[kg]	48	50	54	63
GFL07	m	[kg]			86	94
GFL09	m	[kg]				148

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	53			
GFL06	m	[kg]	71	84		
GFL07	m	[kg]	102	115	145	
GFL09	m	[kg]	157	169	200	
GFL11	m	[kg]	257	269	298	
GFL14	m	[kg]		429	457	

GFL□□-2M HCK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	13	15	21	
GFL05	m	[kg]	28	30	35	43
GFL06	m	[kg]	45	47	52	60
GFL07	m	[kg]			82	90
GFL09	m	[kg]				141

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	51			
GFL06	m	[kg]	69	81		
GFL07	m	[kg]	98	111	141	
GFL09	m	[kg]	150	162	193	
GFL11	m	[kg]	243	255	284	
GFL14	m	[kg]		406	434	

- Weights with oil filling for mounting position A; all values are approximate.
  The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GFL□□-2M VAR / VBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	12	15	20	27
GFL05	m	[kg]	26	29	33	41
GFL06	m	[kg]	43	45	50	58
GFL07	m	[kg]			80	88
GFL09	m	[kg]				140

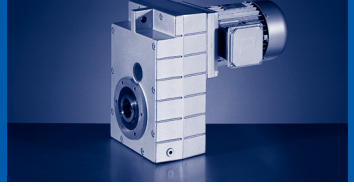
			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	50			
GFL06	m	[kg]	67	79		
GFL07	m	[kg]	96	109	139	
GFL09	m	[kg]	149	161	192	
GFL11	m	[kg]	249	261	290	
GFL14	m	[kg]		429	457	

GFL□□-2M VCR / VDR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	11	14	19	26
GFL05	m	[kg]	25	27	32	40
GFL06	m	[kg]	41	43	47	56
GFL07	m	[kg]			76	84
GFL09	m	[kg]				133

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	48			
GFL06	m	[kg]	64	77		
GFL07	m	[kg]	92	105	135	
GFL09	m	[kg]	142	154	185	
GFL11	m	[kg]	235	247	276	
GFL14	m	[kg]		406	434	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GFL□□-2M VAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	15	17	22	30
GFL05	m	[kg]	30	33	37	45
GFL06	m	[kg]	50	52	57	65
GFL07	m	[kg]			91	99
GFL09	m	[kg]				156

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	54			
GFL06	m	[kg]	74	86		
GFL07	m	[kg]	107	120	150	
GFL09	m	[kg]	165	177	208	
GFL11	m	[kg]	273	285	314	
GFL14	m	[kg]		462	490	

GFL□□-2M VCK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	14	16	21	29
GFL05	m	[kg]	29	31	36	44
GFL06	m	[kg]	48	50	54	63
GFL07	m	[kg]			87	95
GFL09	m	[kg]				149

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	52			
GFL06	m	[kg]	71	84		
GFL07	m	[kg]	103	116	146	
GFL09	m	[kg]	158	170	201	
GFL11	m	[kg]	259	271	300	
GFL14	m	[kg]		439	467	

- Weights with oil filling for mounting position A; all values are approximate.
  The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GFL□□-2M SAR / SBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	12	15	20	27
GFL05	m	[kg]	26	29	33	41
GFL06	m	[kg]	42	44	48	57
GFL07	m	[kg]			76	84
GFL09	m	[kg]				135

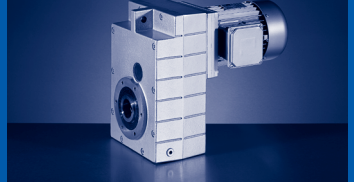
			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	50			
GFL06	m	[kg]	65	78		
GFL07	m	[kg]	93	106	135	
GFL09	m	[kg]	144	156	187	
GFL11	m	[kg]	238	250	279	
GFL14	m	[kg]		407	435	

GFL□□-2M SCR / SDR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL04	m	[kg]	11	14	19	26
GFL05	m	[kg]	25	27	32	40
GFL06	m	[kg]	39	41	46	54
GFL07	m	[kg]			72	80
GFL09	m	[kg]				128

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	48			
GFL06	m	[kg]	63	75		
GFL07	m	[kg]	89	102	131	
GFL09	m	[kg]	137	149	180	
GFL11	m	[kg]	224	236	265	
GFL14	m	[kg]		384	412	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GFL□□-2M SAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL05	m	[kg]	30	33	37	45
GFL06	m	[kg]	49	51	55	64
GFL07	m	[kg]			87	95
GFL09	m	[kg]				151

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	54			
GFL06	m	[kg]	72	85		
GFL07	m	[kg]	104	117	146	
GFL09	m	[kg]	160	172	203	
GFL11	m	[kg]	262	274	303	
GFL14	m	[kg]		440	468	

GFL□□-2M SCK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GFL05	m	[kg]	29	31	36	44
GFL06	m	[kg]	46	48	53	61
GFL07	m	[kg]			83	91
GFL09	m	[kg]				144

			100C12 100C32	112C22	132C12 132C22	132C32
GFL05	m	[kg]	52			
GFL06	m	[kg]	70	82		
GFL07	m	[kg]	100	113	142	
GFL09	m	[kg]	153	165	196	
GFL11	m	[kg]	248	260	289	
GFL14	m	[kg]		417	445	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GFL□□-3M HAR / HBR

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	26	28		
GFL06	m	[kg]	44	46		51
GFL07	m	[kg]	76	78		83
GFL09	m	[kg]	130	132		137
GFL11	m	[kg]				237

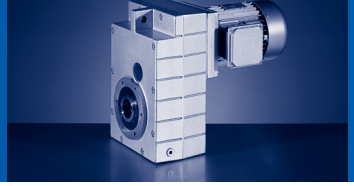
			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	91				
GFL09	m	[kg]	145	154			
GFL11	m	[kg]	245	254	267	297	
GFL14	m	[kg]	411	419	432	462	

GFL□□-3M HCR / HDR

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	25	27		
GFL06	m	[kg]	42	44		49
GFL07	m	[kg]	72	74		79
GFL09	m	[kg]	123	125		130
GFL11	m	[kg]				223

			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	87				
GFL09	m	[kg]	138	147			
GFL11	m	[kg]	231	240	253	283	
GFL14	m	[kg]	388	396	409	439	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GFL□□-3M HAK

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	30	32		
GFL06	m	[kg]	51	53		58
GFL07	m	[kg]	87	89		94
GFL09	m	[kg]	146	148		153
GFL11	m	[kg]				261

			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	102				
GFL09	m	[kg]	161	170			
GFL11	m	[kg]	269	278	291	321	
GFL14	m	[kg]	444	452	465	495	

GFL□□-3M HCK

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	29	31		
GFL06	m	[kg]	49	51		56
GFL07	m	[kg]	83	85		90
GFL09	m	[kg]	139	141		146
GFL11	m	[kg]				247

			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	98				
GFL09	m	[kg]	154	163			
GFL11	m	[kg]	255	264	277	307	
GFL14	m	[kg]	421	429	442	472	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GFL□□-3M VAR / VBR

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	27	29		
GFL06	m	[kg]	47	49		54
GFL07	m	[kg]	81	83		88
GFL09	m	[kg]	138	140		145
GFL11	m	[kg]				253

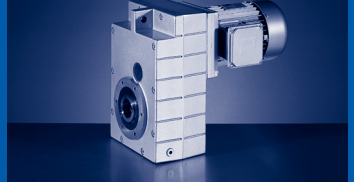
			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	96				
GFL09	m	[kg]	153	162			
GFL11	m	[kg]	261	270	283	313	
GFL14	m	[kg]	444	452	465	495	

GFL□□-3M VCR / VDR

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	26	28		
GFL06	m	[kg]	44	46		51
GFL07	m	[kg]	77	79		84
GFL09	m	[kg]	131	133		138
GFL11	m	[kg]				239

			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	92				
GFL09	m	[kg]	146	155			
GFL11	m	[kg]	247	256	269	299	
GFL14	m	[kg]	421	429	442	472	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GFL□□-3M VAK

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	31	33		
GFL06	m	[kg]	54	56		61
GFL07	m	[kg]	92	94		99
GFL09	m	[kg]	154	156		161
GFL11	m	[kg]				277

			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	107				
GFL09	m	[kg]	169	178			
GFL11	m	[kg]	285	294	307	337	
GFL14	m	[kg]	477	485	498	528	

GFL□□-3M VCK

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	30	32		
GFL06	m	[kg]	51	53		58
GFL07	m	[kg]	88	90		95
GFL09	m	[kg]	147	149		154
GFL11	m	[kg]				263

			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	103				
GFL09	m	[kg]	162	171			
GFL11	m	[kg]	271	280	293	323	
GFL14	m	[kg]	454	462	475	505	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GFL□□-3M SAR / SBR

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	27	29		
GFL06	m	[kg]	45	47		52
GFL07	m	[kg]	77	80		84
GFL09	m	[kg]	133	135		140
GFL11	m	[kg]				242

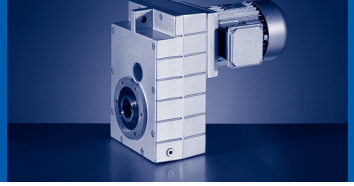
			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	92				
GFL09	m	[kg]	148	157			
GFL11	m	[kg]	250	259	272	302	
GFL14	m	[kg]	422	430	443	473	

GFL□□-3M SCR / SDR

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	26	28		
GFL06	m	[kg]	43	45		50
GFL07	m	[kg]	73	76		80
GFL09	m	[kg]	126	128		133
GFL11	m	[kg]				228

			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	88				
GFL09	m	[kg]	141	150			
GFL11	m	[kg]	236	245	258	288	
GFL14	m	[kg]	399	407	420	450	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GFL□□-3M SAK

			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	31	33		
GFL06	m	[kg]	52	54		59
GFL07	m	[kg]	88	91		95
GFL09	m	[kg]	149	151		156
GFL11	m	[kg]				266

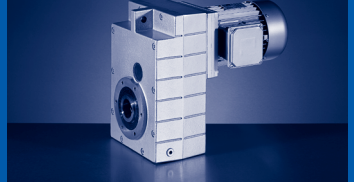
			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	103				
GFL09	m	[kg]	164	173			
GFL11	m	[kg]	274	283	296	326	
GFL14	m	[kg]	455	463	476	506	

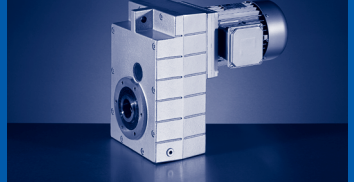
GFL□□-3M SCK

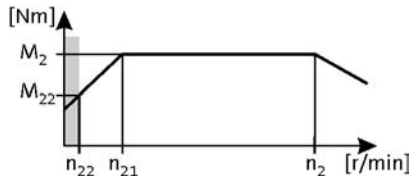
			063C32 063C42	071C32	071C42	080C32 080C42
GFL05	m	[kg]	30	32		
GFL06	m	[kg]	50	52		57
GFL07	m	[kg]	84	87		91
GFL09	m	[kg]	142	144		149
GFL11	m	[kg]				252

			090C32	100C12 100C32	112C22	132C12	132C22 132C32
GFL07	m	[kg]	99				
GFL09	m	[kg]	157	166			
GFL11	m	[kg]	260	269	282	312	
GFL14	m	[kg]	432	440	453	483	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).





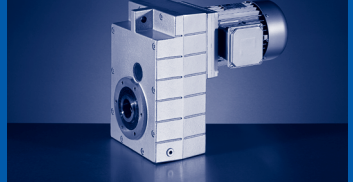


120 Hz: P_N = 0.55 kW

n_{22} / n_2 = 1 ... 24.0

n_1 = 143.3 ... 3440 r/min

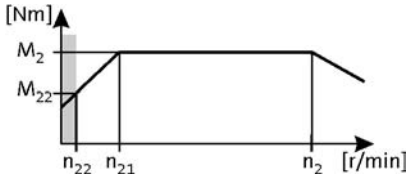
n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
22	94	-	538	7.2	10	3.9	6.400	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
20	85	-	490	7.9	10	4.5	7.025	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
14	59	-	336	12	15	4.5	10.238	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
9.8	41	-	234	17	22	4.5	14.706	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
9.0	38	-	216	18	24	3.9	15.904	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
8.0	34	-	192	20	27	3.9	17.920	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
7.0	29	-	168	23	30	4.1	20.519	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
6.3	26	-	151	26	34	3.7	22.857	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
5.7	24	-	137	28	37	4.2	25.136	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
5.1	21	-	123	31	42	3.5	28.000	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
4.5	19	-	109	35	47	3.4	31.600	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
4.1	17	-	98	40	52	2.8	35.200	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
3.5	15	-	85	46	60	2.7	40.697	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
3.2	13	-	76	51	67	2.2	45.333	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
2.8	12	-	67	58	76	2.1	51.579	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
2.8	12	-	66	58	77	3.2	52.067	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
2.5	10	-	60	64	85	1.8	57.455	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
2.4	10	-	59	66	87	3.2	58.667	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
2.3	9.7	-	56	68	90	2.0	61.653	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
2.3	9.5	-	54	71	94	2.6	63.190	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
2.2	9.4	-	54	72	95	3.1	64.080	GFL06-2M□□□063C32	E84AV□□□5514□□0	188
2.2	9.3	-	53	73	96	1.2	64.636	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
2.0	8.3	-	48	81	107	1.3	72.000	GFL04-2M□□□063C32	E84AV□□□5514□□0	188
2.0	8.4	-	48	80	106	2.8	71.200	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
1.8	7.6	-	44	87	115	1.9	78.639	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
1.8	7.4	-	43	91	120	1.5	80.763	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
1.8	7.4	-	43	91	120	2.8	81.000	GFL06-2M□□□063C32	E84AV□□□5514□□0	188
1.6	6.6	-	38	102	135	1.5	91.000	GFL05-2M□□□063C32	E84AV□□□5514□□0	188
1.6	6.7	-	38	100	132	2.2	90.123	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
1.6	6.6	-	38	102	135	2.8	91.250	GFL06-2M□□□063C32	E84AV□□□5514□□0	188
1.4	5.9	-	34	112	148	2.1	101.547	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
1.3	5.2	-	30	127	168	1.9	114.952	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
1.2	5.2	-	30	129	170	3.0	116.571	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
1.1	4.6	-	27	143	189	1.7	129.524	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
1.1	4.6	-	26	145	192	3.0	131.323	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
1.0	4.3	-	24	156	206	1.6	140.817	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
1.0	4.2	-	24	159	211	2.5	144.320	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.9	3.8	-	22	175	232	1.4	158.667	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
0.9	3.7	-	21	180	237	2.5	162.583	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.8	3.4	-	19	196	258	1.3	177.027	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
0.8	3.3	-	19	198	262	2.2	179.520	GFL06-3M□□□063C32	E84AV□□□5514□□0	196



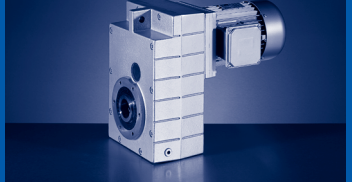
120 Hz: P_N = 0.55 kW

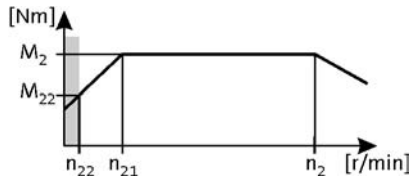
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.3 ... 3440 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.7	3.0	-	17	220	291	1.1	199.467	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
0.7	3.0	-	17	223	295	2.0	202.237	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.6	2.6	-	15	252	333	1.0	227.989	GFL05-3M□□□063C32	E84AV□□□5514□□0	196
0.6	2.6	-	15	255	337	1.8	231.200	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.6	2.3	-	13	288	380	1.5	260.457	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.5	2.0	-	12	330	437	1.3	299.200	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.5	2.1	-	12	324	428	1.5	293.018	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.5	2.1	-	12	321	424	3.1	290.706	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.4	1.8	-	11	362	478	2.5	327.556	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.4	1.7	-	9.8	390	515	2.6	352.811	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.4	1.6	-	9.4	406	536	1.2	367.200	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.4	1.5	-	8.7	439	580	2.1	397.533	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.4	1.5	-	8.3	457	604	1.0	413.667	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.3	1.4	-	8.0	475	628	1.9	430.222	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.3	1.3	-	7.2	525	693	0.9	475.200	GFL06-3M□□□063C32	E84AV□□□5514□□0	196
0.3	1.2	-	6.6	577	762	1.6	522.133	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.3	1.1	-	6.2	612	809	2.5	554.470	GFL09-3M□□□063C32	E84AV□□□5514□□0	196
0.3	1.1	-	6.1	621	821	1.3	562.391	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.2	1.0	-	5.5	690	912	2.4	624.879	GFL09-3M□□□063C32	E84AV□□□5514□□0	196
0.2	1.0	-	5.4	700	925	1.3	633.680	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.2	0.9	-	4.9	774	1023	2.0	700.875	GFL09-3M□□□063C32	E84AV□□□5514□□0	196
0.2	0.8	-	4.8	794	1049	1.0	718.786	GFL07-3M□□□063C32	E84AV□□□5514□□0	196
0.2	0.8	-	4.4	872	1153	1.9	789.875	GFL09-3M□□□063C32	E84AV□□□5514□□0	196
0.2	0.7	-	4.3	894	1182	1.0	809.900	GFL07-3M□□□063C32	E84AV□□□5514□□0	196





120 Hz: P_N = 0.75 kW

n_{22} / n_2 = 1 ... 24.0

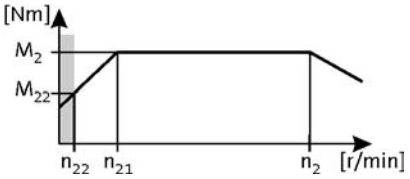
n_1 = 141.7 ... 3400 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
22	94	-	531	9.8	13	2.9	6.400	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
20	85	-	484	11	14	3.3	7.025	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
14	59	-	332	16	21	3.3	10.238	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
9.6	41	-	231	23	30	3.3	14.706	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
8.9	38	-	214	24	33	2.9	15.904	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
7.9	34	-	190	27	37	2.9	17.920	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
6.9	29	-	166	31	42	3.0	20.519	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
6.2	26	-	149	35	47	2.7	22.857	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
5.6	24	-	135	38	51	3.1	25.136	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
5.1	21	-	121	43	57	2.5	28.000	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
4.5	19	-	108	48	65	2.5	31.600	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
4.4	19	-	105	49	66	3.1	32.344	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
4.0	17	-	97	54	72	2.0	35.200	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
3.9	17	-	93	56	75	3.1	36.444	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
3.5	15	-	85	62	82	2.6	40.233	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
3.5	15	-	84	62	83	1.9	40.697	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
3.1	13	-	75	69	93	1.6	45.333	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
3.1	13	-	75	69	93	2.6	45.333	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
2.8	12	-	66	79	105	1.6	51.579	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
2.7	12	-	65	80	106	2.3	52.067	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
2.7	11	-	64	81	108	2.6	52.800	GFL06-2M□□□063C42	E84AV□□□7514□□0	188
2.5	10	-	59	88	117	1.3	57.455	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
2.4	10	-	58	90	120	2.3	58.667	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
2.4	10	-	57	91	122	2.6	59.481	GFL06-2M□□□063C42	E84AV□□□7514□□0	188
2.3	9.7	-	55	93	124	1.4	61.653	GFL05-3M□□□063C42	E84AV□□□7514□□0	196
2.2	9.5	-	54	97	129	1.9	63.190	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
2.2	9.4	-	53	98	131	2.3	64.080	GFL06-2M□□□063C42	E84AV□□□7514□□0	188
2.0	8.4	-	48	109	146	2.0	71.200	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
2.0	8.3	-	47	110	147	1.0	72.000	GFL04-2M□□□063C42	E84AV□□□7514□□0	188
2.0	8.3	-	47	110	148	2.5	72.189	GFL06-2M□□□063C42	E84AV□□□7514□□0	188
1.8	7.6	-	43	118	158	1.4	78.639	GFL05-3M□□□063C42	E84AV□□□7514□□0	196
1.8	7.4	-	42	124	165	1.1	80.763	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
1.8	7.4	-	42	124	166	2.0	81.000	GFL06-2M□□□063C42	E84AV□□□7514□□0	188
1.8	7.4	-	42	122	163	2.9	81.111	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
1.6	6.8	-	39	133	178	2.6	88.200	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
1.6	6.7	-	38	136	181	1.6	90.123	GFL05-3M□□□063C42	E84AV□□□7514□□0	196
1.6	6.6	-	37	139	186	1.1	91.000	GFL05-2M□□□063C42	E84AV□□□7514□□0	188
1.6	6.6	-	37	140	187	2.0	91.250	GFL06-2M□□□063C42	E84AV□□□7514□□0	188
1.4	5.9	-	34	153	204	1.5	101.547	GFL05-3M□□□063C42	E84AV□□□7514□□0	196
1.4	6.0	-	34	150	200	2.6	99.361	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
1.2	5.2	-	30	173	231	1.4	114.952	GFL05-3M□□□063C42	E84AV□□□7514□□0	196

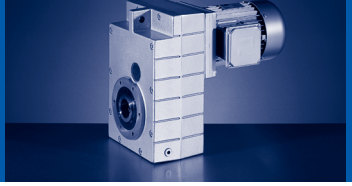
120 Hz: P_N = 0.75 kW

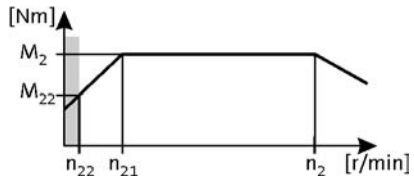
n_{22} / n_2 = 1 ... 24.0

n_1 = 141.7 ... 3400 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.2	5.2	-	29	176	235	2.2	116.571	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
1.1	4.6	-	26	195	261	1.2	129.524	GFL05-3M□□□063C42	E84AV□□□7514□□0	196
1.1	4.6	-	26	198	264	2.2	131.323	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
1.0	4.3	-	24	212	284	1.2	140.817	GFL05-3M□□□063C42	E84AV□□□7514□□0	196
1.0	4.2	-	24	217	291	1.8	144.320	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
0.9	3.8	-	21	239	319	1.0	158.667	GFL05-3M□□□063C42	E84AV□□□7514□□0	196
0.9	3.7	-	21	245	327	1.8	162.583	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
0.8	3.4	-	19	267	356	0.9	177.027	GFL05-3M□□□063C42	E84AV□□□7514□□0	196
0.8	3.3	-	19	270	361	1.6	179.520	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
0.8	3.3	-	19	276	369	2.9	183.285	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.7	3.0	-	17	305	407	1.4	202.237	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
0.7	2.9	-	17	311	416	2.9	206.519	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.6	2.6	-	15	348	465	1.3	231.200	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
0.6	2.7	-	15	338	452	2.8	224.636	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.5	2.3	-	13	392	524	1.1	260.457	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
0.6	2.4	-	13	381	510	2.4	253.111	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.5	2.1	-	12	441	590	1.1	293.018	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
0.5	2.1	-	12	438	585	2.3	290.706	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.5	2.1	-	12	438	586	2.9	290.889	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.5	2.0	-	11	451	602	1.0	299.200	GFL06-3M□□□063C42	E84AV□□□7514□□0	196
0.4	1.8	-	10	493	659	1.8	327.556	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.4	1.8	-	10	494	660	2.9	327.827	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.4	1.7	-	9.6	531	710	1.9	352.811	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.4	1.7	-	9.6	532	711	2.5	353.033	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.4	1.5	-	8.6	599	800	1.5	397.533	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.4	1.5	-	8.6	599	801	2.5	397.863	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.3	1.4	-	8.0	639	854	2.9	424.247	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.3	1.4	-	7.9	648	866	1.4	430.222	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.3	1.2	-	6.6	775	1037	2.5	514.881	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.3	1.2	-	6.5	786	1051	1.2	522.133	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.3	1.1	-	6.1	847	1132	1.0	562.391	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.3	1.1	-	6.1	835	1116	1.8	554.470	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.2	1.0	-	5.4	954	1276	0.9	633.680	GFL07-3M□□□063C42	E84AV□□□7514□□0	196
0.2	1.0	-	5.4	941	1258	1.7	624.879	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.2	0.9	-	4.9	1055	1411	1.4	700.875	GFL09-3M□□□063C42	E84AV□□□7514□□0	196
0.2	0.8	-	4.3	1190	1590	1.4	789.875	GFL09-3M□□□063C42	E84AV□□□7514□□0	196





120 Hz: P_N = 1.10 kW

n_{22} / n_2 = 1 ... 24.0

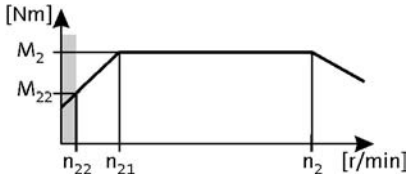
n_1 = 145.4 ... 3490 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	93	-	543	14	19	3.9	6.422	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
21	85	-	497	16	21	3.9	7.025	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
16	67	-	387	20	26	4.2	9.010	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
14	59	-	341	23	30	3.9	10.238	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
9.9	41	-	237	33	43	3.2	14.706	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
9.0	37	-	217	36	47	2.9	16.087	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
8.1	34	-	195	40	52	2.4	17.920	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
7.1	29	-	170	46	60	2.3	20.519	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
6.4	26	-	153	51	67	1.9	22.857	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
5.8	24	-	139	56	73	2.1	25.136	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
5.2	21	-	125	63	82	1.8	28.000	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
4.6	19	-	110	71	92	1.7	31.600	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
4.5	19	-	108	73	95	3.1	32.344	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
4.1	17	-	99	79	103	1.4	35.200	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
4.0	17	-	96	82	106	2.5	36.444	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
3.6	15	-	87	90	118	2.5	40.233	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
3.6	15	-	86	91	119	1.3	40.697	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
3.2	13	-	77	102	132	1.1	45.333	GFL04-2M□□□071C32	E84AV□□□1124□□0	188
3.2	13	-	77	102	132	2.1	45.333	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
2.8	12	-	67	117	152	1.7	52.067	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
2.8	11	-	66	118	154	3.1	52.800	GFL06-2M□□□071C32	E84AV□□□1124□□0	188
2.5	10	-	60	132	171	1.6	58.667	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
2.4	10	-	59	133	174	3.0	59.481	GFL06-2M□□□071C32	E84AV□□□1124□□0	188
2.4	9.7	-	57	136	177	1.0	61.653	GFL05-3M□□□071C32	E84AV□□□1124□□0	196
2.3	9.5	-	55	142	185	1.3	63.190	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
2.3	9.4	-	55	144	187	2.5	64.080	GFL06-2M□□□071C32	E84AV□□□1124□□0	188
2.2	9.1	-	53	146	191	2.5	66.213	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
2.0	8.4	-	49	160	208	1.4	71.200	GFL05-2M□□□071C32	E84AV□□□1124□□0	188
2.0	8.3	-	49	159	207	2.3	72.000	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
2.0	8.3	-	48	162	211	2.8	72.189	GFL06-2M□□□071C32	E84AV□□□1124□□0	188
1.9	7.6	-	44	174	226	0.9	78.639	GFL05-3M□□□071C32	E84AV□□□1124□□0	196
1.8	7.4	-	43	182	237	1.6	81.000	GFL06-2M□□□071C32	E84AV□□□1124□□0	188
1.8	7.4	-	43	179	233	2.0	81.111	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
1.7	6.8	-	40	195	254	1.8	88.200	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
1.6	6.7	-	39	199	259	1.1	90.123	GFL05-3M□□□071C32	E84AV□□□1124□□0	196
1.6	6.6	-	38	205	267	1.6	91.250	GFL06-2M□□□071C32	E84AV□□□1124□□0	188
1.5	6.0	-	35	220	286	1.8	99.361	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
1.4	5.9	-	34	224	292	1.1	101.547	GFL05-3M□□□071C32	E84AV□□□1124□□0	196
1.3	5.3	-	31	250	326	3.0	113.206	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
1.3	5.2	-	30	254	331	0.9	114.952	GFL05-3M□□□071C32	E84AV□□□1124□□0	196
1.3	5.2	-	30	258	335	1.5	116.571	GFL06-3M□□□071C32	E84AV□□□1124□□0	196

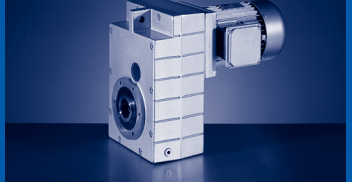
120 Hz: P_N = 1.10 kW

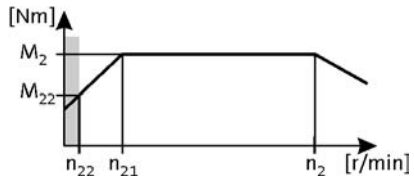
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.4 ... 3490 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.1	4.6	-	27	290	378	1.5	131.323	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
1.1	4.7	-	27	282	367	3.0	127.556	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
1.0	4.2	-	24	319	415	1.3	144.320	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
1.0	4.1	-	24	325	424	2.6	147.347	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.9	3.7	-	22	359	468	1.2	162.583	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
0.9	3.6	-	21	367	478	2.5	166.025	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.8	3.3	-	19	397	516	1.1	179.520	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
0.8	3.3	-	19	405	527	2.2	183.285	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.7	3.0	-	17	447	582	1.0	202.237	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
0.7	2.9	-	17	456	594	2.0	206.519	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.7	2.7	-	16	496	646	2.0	224.636	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.6	2.6	-	15	511	665	0.9	231.200	GFL06-3M□□□071C32	E84AV□□□1124□□0	196
0.6	2.4	-	14	559	728	1.6	253.111	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.5	2.1	-	12	642	836	1.6	290.706	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.5	2.1	-	12	643	837	3.0	290.889	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.4	1.8	-	11	724	942	1.3	327.556	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.4	1.8	-	11	724	943	3.0	327.827	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.4	1.7	-	9.9	779	1015	1.3	352.811	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.4	1.7	-	9.9	780	1016	2.6	353.033	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.4	1.5	-	8.8	878	1144	1.0	397.533	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.4	1.5	-	8.8	879	1144	2.6	397.863	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.3	1.4	-	8.2	937	1220	2.1	424.247	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.3	1.4	-	8.1	950	1238	1.0	430.222	GFL07-3M□□□071C32	E84AV□□□1124□□0	196
0.3	1.2	-	6.8	1137	1481	1.7	514.881	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.3	1.1	-	6.3	1225	1595	1.3	554.470	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.2	1.0	-	5.6	1380	1797	1.2	624.879	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.2	0.9	-	5.0	1548	2016	1.0	700.875	GFL09-3M□□□071C32	E84AV□□□1124□□0	196
0.2	0.8	-	4.4	1745	2272	1.0	789.875	GFL09-3M□□□071C32	E84AV□□□1124□□0	196





120 Hz: P_N = 1.50 kW

n_{22} / n_2 = 1 ... 24.0

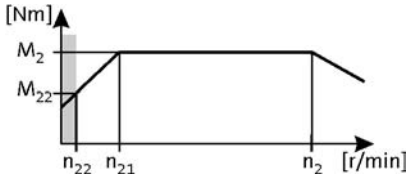
n_1 = 143.8 ... 3450 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	94	-	539	20	26	3.1	6.400	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
22	93	-	537	20	26	2.9	6.422	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
21	85	-	491	22	28	2.8	7.025	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
16	67	-	383	28	36	3.1	9.010	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
15	60	-	347	30	40	3.1	9.946	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
14	59	-	337	31	41	2.9	10.238	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
9.9	41	-	237	45	59	3.1	14.538	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
9.8	41	-	235	45	59	2.3	14.706	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
9.0	38	-	217	49	64	3.1	15.904	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
8.9	37	-	215	49	65	2.1	16.087	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
8.0	34	-	193	55	72	1.8	17.920	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
8.0	34	-	193	55	72	3.1	17.920	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
7.1	30	-	170	62	82	2.9	20.286	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
7.0	29	-	168	63	83	1.7	20.519	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
7.0	29	-	168	63	83	3.1	20.571	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
6.3	26	-	151	70	92	1.4	22.857	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
6.3	26	-	151	70	92	2.6	22.857	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
6.2	26	-	149	71	93	3.1	23.175	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
5.8	24	-	139	76	100	2.9	24.850	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
5.7	24	-	137	77	101	1.6	25.136	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
5.1	21	-	123	86	113	1.3	28.000	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
5.1	21	-	123	86	113	2.4	28.000	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
4.6	19	-	109	97	127	1.3	31.600	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
4.4	19	-	107	99	130	2.3	32.344	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
4.4	18	-	105	100	132	2.9	32.800	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
4.1	17	-	98	108	142	1.0	35.200	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
3.9	17	-	95	111	147	1.9	36.444	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
3.9	16	-	93	113	149	2.9	36.951	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
3.6	15	-	86	123	162	1.8	40.233	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
3.5	15	-	85	124	164	1.0	40.697	GFL04-2M□□□071C42	E84AV□□□1524□□0	188
3.5	15	-	85	125	164	2.4	40.800	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
3.2	13	-	76	139	183	1.5	45.333	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
3.1	13	-	75	141	185	2.4	45.963	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
2.8	12	-	66	159	210	1.3	52.067	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
2.7	11	-	65	161	213	2.2	52.800	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
2.5	10	-	59	179	236	1.2	58.667	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
2.4	10	-	58	182	240	2.2	59.481	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
2.3	9.5	-	55	193	255	1.0	63.190	GFL05-2M□□□071C42	E84AV□□□1524□□0	188
2.2	9.4	-	54	196	258	1.8	64.080	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
2.2	9.1	-	52	199	263	1.8	66.213	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
2.0	8.4	-	49	218	287	1.0	71.200	GFL05-2M□□□071C42	E84AV□□□1524□□0	188

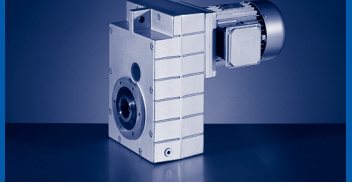
120 Hz: P_N = 1.50 kW

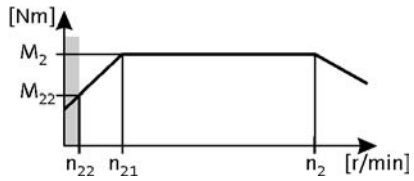
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.8 ... 3450 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
2.0	8.3	-	48	217	286	1.7	72.000	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
2.0	8.3	-	48	221	291	2.0	72.189	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
2.0	8.3	-	48	218	288	2.9	72.452	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
1.8	7.4	-	43	248	326	1.2	81.000	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
1.8	7.4	-	43	244	322	1.5	81.111	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
1.8	7.4	-	42	246	324	2.9	81.636	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
1.6	6.8	-	39	266	350	1.3	88.200	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
1.6	6.6	-	38	279	368	1.2	91.250	GFL06-2M□□□071C42	E84AV□□□1524□□0	188
1.6	6.5	-	37	278	367	2.5	92.413	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
1.5	6.0	-	35	299	394	1.3	99.361	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
1.4	5.8	-	33	314	413	2.5	104.127	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
1.3	5.3	-	31	341	449	2.2	113.206	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
1.2	5.2	-	30	351	463	1.1	116.571	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
1.1	4.7	-	27	384	506	2.2	127.556	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
1.1	4.6	-	26	396	521	1.1	131.323	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
1.0	4.2	-	24	435	573	0.9	144.320	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
1.0	4.1	-	23	444	585	1.9	147.347	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
1.0	4.0	-	23	448	591	3.2	148.815	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.9	3.7	-	21	490	645	0.9	162.583	GFL06-3M□□□071C42	E84AV□□□1524□□0	196
0.9	3.6	-	21	500	659	1.8	166.025	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
0.9	3.6	-	21	505	666	3.2	167.712	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.8	3.3	-	19	552	727	1.6	183.285	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
0.8	3.2	-	19	558	735	2.7	185.111	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.7	2.9	-	17	622	819	1.5	206.519	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
0.7	2.9	-	17	628	828	2.7	208.617	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.6	2.7	-	15	677	891	1.4	224.636	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
0.6	2.7	-	15	677	892	2.6	224.778	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.6	2.4	-	14	762	1004	1.2	253.111	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
0.6	2.4	-	14	763	1005	2.6	253.321	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.5	2.1	-	12	876	1154	1.1	290.706	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
0.5	2.1	-	12	876	1154	2.2	290.889	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.4	1.8	-	11	987	1300	0.9	327.556	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
0.4	1.8	-	11	987	1301	2.2	327.827	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.4	1.7	-	9.8	1063	1400	0.9	352.811	GFL07-3M□□□071C42	E84AV□□□1524□□0	196
0.4	1.7	-	9.8	1063	1401	1.9	353.033	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.4	1.5	-	8.7	1198	1579	1.9	397.863	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.3	1.4	-	8.1	1278	1683	1.5	424.247	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.3	1.2	-	6.7	1551	2043	1.3	514.881	GFL09-3M□□□071C42	E84AV□□□1524□□0	196
0.3	1.1	-	6.2	1670	2200	0.9	554.470	GFL09-3M□□□071C42	E84AV□□□1524□□0	196





120 Hz: P_N = 2.20 kW

n_{22} / n_2 = 1 ... 24.0

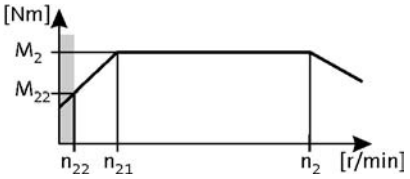
n_1 = 145.8 ... 3500 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	93	-	545	28	37	2.3	6.422	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
21	85	-	498	31	41	2.1	7.025	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
16	67	-	389	39	53	3.8	9.010	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
14	59	-	342	45	60	2.0	10.238	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
10	41	-	241	64	85	2.7	14.538	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
9.9	41	-	238	64	86	1.6	14.706	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
9.2	38	-	220	69	93	2.5	15.904	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
9.1	37	-	218	70	94	1.5	16.087	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
8.1	34	-	195	78	104	1.2	17.920	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
8.1	34	-	195	78	104	2.3	17.920	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
7.2	30	-	173	89	118	2.1	20.286	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
7.1	29	-	171	90	120	1.2	20.519	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
6.4	26	-	153	100	133	0.9	22.857	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
6.4	26	-	153	100	133	1.8	22.857	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
5.9	24	-	141	109	145	2.0	24.850	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
5.8	24	-	139	110	146	1.1	25.136	GFL04-2M□□□080C32	E84AV□□□2224□□0	188
5.2	21	-	125	122	163	1.6	28.000	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
5.1	21	-	123	124	165	3.1	28.389	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
4.5	19	-	108	141	188	1.6	32.344	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
4.5	18	-	107	143	191	2.9	32.800	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
4.0	17	-	96	159	212	1.3	36.444	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
4.0	16	-	95	161	215	2.4	36.951	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
3.6	15	-	87	176	234	1.3	40.233	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
3.6	15	-	86	178	238	2.4	40.800	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
3.2	13	-	77	198	264	1.0	45.333	GFL05-2M□□□080C32	E84AV□□□2224□□0	188
3.2	13	-	76	201	268	2.0	45.963	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
2.8	12	-	67	227	303	3.1	52.067	GFL07-2M□□□080C32	E84AV□□□2224□□0	188
2.8	11	-	66	231	308	1.8	52.800	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
2.5	10	-	60	256	342	3.1	58.667	GFL07-2M□□□080C32	E84AV□□□2224□□0	188
2.5	10	-	59	260	346	1.5	59.481	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
2.3	9.4	-	55	280	373	1.3	64.080	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
2.3	9.5	-	55	276	368	2.4	63.190	GFL07-2M□□□080C32	E84AV□□□2224□□0	188
2.2	9.2	-	54	281	375	2.2	65.306	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
2.2	9.1	-	53	285	380	1.2	66.213	GFL06-3M□□□080C32	E84AV□□□2224□□0	196
2.0	8.3	-	49	310	413	1.1	72.000	GFL06-3M□□□080C32	E84AV□□□2224□□0	196
2.0	8.3	-	49	315	420	1.4	72.189	GFL06-2M□□□080C32	E84AV□□□2224□□0	188
2.1	8.4	-	49	311	415	2.7	71.200	GFL07-2M□□□080C32	E84AV□□□2224□□0	188
2.0	8.3	-	48	312	416	2.0	72.452	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
1.8	7.5	-	44	349	465	1.6	79.875	GFL07-2M□□□080C32	E84AV□□□2224□□0	188
1.8	7.4	-	43	349	465	1.0	81.111	GFL06-3M□□□080C32	E84AV□□□2224□□0	196
1.8	7.4	-	43	351	468	2.0	81.636	GFL07-3M□□□080C32	E84AV□□□2224□□0	196

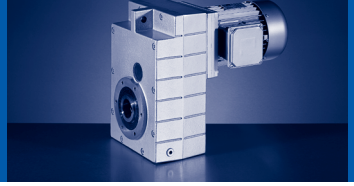
120 Hz: P_N = 2.20 kW

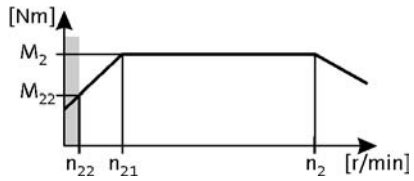
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.8 ... 3500 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.7	6.8	-	40	379	506	0.9	88.200	GFL06-3M□□□080C32	E84AV□□□2224□□0	196
1.6	6.7	-	39	393	524	1.6	90.000	GFL07-2M□□□080C32	E84AV□□□2224□□0	188
1.6	6.5	-	38	397	530	1.7	92.413	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
1.6	6.4	-	38	401	535	3.0	93.333	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
1.5	6.0	-	35	427	570	0.9	99.361	GFL06-3M□□□080C32	E84AV□□□2224□□0	196
1.4	5.8	-	34	448	597	1.7	104.127	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
1.4	5.7	-	33	452	603	3.0	105.185	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
1.3	5.3	-	31	487	649	1.5	113.206	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
1.3	5.3	-	31	492	656	2.7	114.333	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
1.1	4.7	-	27	549	732	1.5	127.556	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
1.1	4.7	-	27	554	739	2.7	128.852	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
1.0	4.1	-	24	634	845	1.3	147.347	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
1.0	4.0	-	24	640	854	2.3	148.815	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.9	3.6	-	21	714	952	1.2	166.025	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
0.9	3.6	-	21	721	962	2.3	167.712	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.8	3.3	-	19	788	1052	1.1	183.285	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
0.8	3.2	-	19	796	1062	2.0	185.111	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.7	2.9	-	17	888	1185	1.0	206.519	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
0.7	2.9	-	17	897	1197	2.0	208.617	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.7	2.7	-	16	966	1289	1.0	224.636	GFL07-3M□□□080C32	E84AV□□□2224□□0	196
0.7	2.7	-	16	967	1290	1.8	224.778	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.6	2.4	-	14	1089	1453	1.8	253.321	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.6	2.3	-	13	1149	1533	3.2	267.259	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.5	2.1	-	12	1251	1669	1.5	290.889	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.4	1.8	-	11	1410	1881	1.5	327.827	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.5	1.8	-	11	1409	1879	2.8	327.556	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.4	1.7	-	9.9	1518	2025	1.3	353.033	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.4	1.7	-	9.8	1540	2054	2.4	358.077	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.4	1.5	-	8.8	1711	2282	1.3	397.863	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.4	1.5	-	8.7	1735	2315	2.4	403.467	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.3	1.4	-	8.3	1825	2434	1.1	424.247	GFL09-3M□□□080C32	E84AV□□□2224□□0	196
0.3	1.4	-	8.1	1850	2468	2.3	430.222	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.3	1.2	-	6.7	2245	2995	1.9	522.133	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.3	1.1	-	6.2	2419	3226	1.6	562.391	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.2	1.0	-	5.5	2725	3635	1.5	633.680	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.2	0.8	-	4.9	3057	4078	1.2	710.888	GFL11-3M□□□080C32	E84AV□□□2224□□0	196
0.2	0.8	-	4.4	3445	4595	1.2	801.000	GFL11-3M□□□080C32	E84AV□□□2224□□0	196





120 Hz: P_N = 3.00 kW

n_{22} / n_2 = 1 ... 24.0

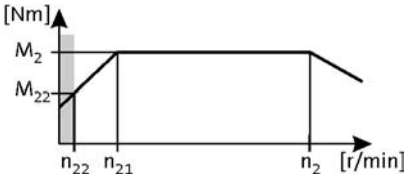
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	141	-	544	38	51	2.6	6.400	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
23	140	-	542	39	51	1.7	6.422	GFL04-2M□□□080C42	E84AV□□□3024□□S	188
23	140	-	540	39	52	3.1	6.450	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
21	128	-	495	42	56	1.5	7.025	GFL04-2M□□□080C42	E84AV□□□3024□□S	188
16	100	-	386	54	72	2.8	9.010	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
15	91	-	350	60	79	2.6	9.946	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
14	89	-	345	61	81	3.1	10.092	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
14	88	-	340	61	82	1.5	10.238	GFL04-2M□□□080C42	E84AV□□□3024□□S	188
10	62	-	239	87	116	2.0	14.538	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
9.9	61	-	237	88	118	1.2	14.706	GFL04-2M□□□080C42	E84AV□□□3024□□S	188
9.8	61	-	236	88	118	3.1	14.743	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
9.1	57	-	219	95	127	1.8	15.904	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
9.0	56	-	216	96	129	1.1	16.087	GFL04-2M□□□080C42	E84AV□□□3024□□S	188
9.0	56	-	216	97	129	3.1	16.128	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
8.1	50	-	194	107	143	1.6	17.920	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
8.0	50	-	192	109	145	3.1	18.169	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
7.2	44	-	172	122	162	1.6	20.286	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
7.2	44	-	172	122	162	3.1	20.286	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
7.1	44	-	169	123	164	2.9	20.571	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
6.3	39	-	152	137	183	1.3	22.857	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
6.3	39	-	152	137	183	3.1	22.857	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
6.3	39	-	150	139	185	2.5	23.175	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
5.8	36	-	140	149	199	1.5	24.850	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
5.8	36	-	138	151	201	2.8	25.200	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
5.2	32	-	124	168	224	1.2	28.000	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
5.1	32	-	123	170	227	2.3	28.389	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
4.5	28	-	108	194	258	1.1	32.344	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
4.5	28	-	108	194	258	2.9	32.344	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
4.4	27	-	106	197	262	2.1	32.800	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
4.0	25	-	96	218	291	0.9	36.444	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
4.0	25	-	96	218	291	2.9	36.444	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
3.9	24	-	94	221	295	1.8	36.951	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
3.7	23	-	88	238	317	2.4	39.642	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
3.6	22	-	87	241	321	0.9	40.233	GFL05-2M□□□080C42	E84AV□□□3024□□S	188
3.6	22	-	85	244	326	1.7	40.800	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
3.3	20	-	78	268	357	2.4	44.667	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
3.2	20	-	76	275	367	1.4	45.963	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
2.8	17	-	67	312	416	2.3	52.067	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
2.8	17	-	66	316	422	1.3	52.800	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
2.4	15	-	59	356	475	1.1	59.481	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
2.5	15	-	59	352	469	2.3	58.667	GFL07-2M□□□080C42	E84AV□□□3024□□S	188

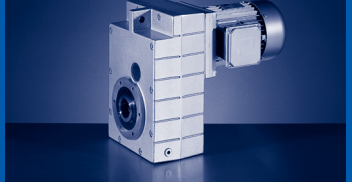
120 Hz: P_N = 3.00 kW

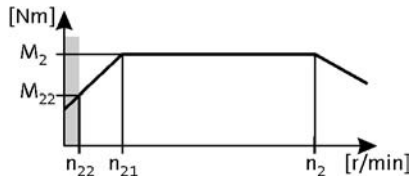
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
2.3	14	-	55	379	505	1.8	63.190	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
2.3	14	-	55	374	498	2.6	63.326	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
2.3	14	-	54	384	512	1.0	64.080	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
2.2	14	-	53	391	521	0.9	66.213	GFL06-3M□□□080C42	E84AV□□□3024□□S	196
2.2	14	-	53	385	514	1.6	65.306	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
2.0	13	-	49	427	569	2.0	71.200	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
2.0	13	-	48	433	577	1.0	72.189	GFL06-2M□□□080C42	E84AV□□□3024□□S	188
2.0	12	-	48	428	570	1.5	72.452	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
2.0	12	-	48	432	576	2.5	73.173	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
1.8	11	-	44	479	638	1.2	79.875	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
1.8	11	-	43	482	642	1.5	81.636	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
1.8	11	-	42	487	649	2.5	82.465	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
1.6	10	-	39	539	719	1.2	90.000	GFL07-2M□□□080C42	E84AV□□□3024□□S	188
1.6	9.7	-	38	545	727	1.3	92.413	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
1.6	9.6	-	37	551	734	2.2	93.333	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
1.4	8.6	-	33	614	819	1.3	104.127	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
1.4	8.6	-	33	621	828	2.2	105.185	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
1.3	8.0	-	31	668	891	1.1	113.206	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
1.3	7.9	-	30	675	900	2.0	114.333	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
1.1	7.1	-	27	753	1004	1.1	127.556	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
1.1	7.0	-	27	760	1014	2.0	128.852	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
1.0	6.1	-	24	870	1159	0.9	147.347	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
1.0	6.1	-	23	878	1171	1.7	148.815	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
1.0	6.0	-	23	880	1173	3.2	149.144	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.9	5.4	-	21	980	1306	0.9	166.025	GFL07-3M□□□080C42	E84AV□□□3024□□S	196
0.9	5.4	-	21	990	1320	1.7	167.712	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.9	5.4	-	21	992	1322	3.2	168.049	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.8	4.9	-	19	1092	1456	1.5	185.111	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.8	4.9	-	19	1079	1438	2.7	182.792	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.7	4.3	-	17	1231	1641	1.5	208.617	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.7	4.4	-	17	1215	1621	2.7	205.963	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.7	4.0	-	16	1326	1769	1.3	224.778	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.7	4.0	-	16	1326	1767	2.4	224.636	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.6	3.6	-	14	1495	1993	1.3	253.321	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.6	3.6	-	14	1494	1991	2.4	253.111	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.5	3.4	-	13	1577	2103	2.3	267.259	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.5	3.1	-	12	1717	2289	1.1	290.889	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.4	2.8	-	11	1935	2579	1.1	327.827	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.4	2.8	-	11	1933	2577	2.0	327.556	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.4	2.6	-	9.9	2083	2778	1.0	353.033	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.4	2.5	-	9.7	2113	2817	1.8	358.077	GFL11-3M□□□080C42	E84AV□□□3024□□S	196





120 Hz: P_N = 3.00 kW

n_{22} / n_2 = 1 ... 24.0

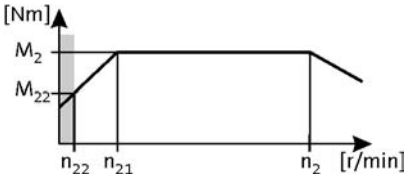
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.4	2.3	-	8.8	2348	3130	1.0	397.863	GFL09-3M□□□080C42	E84AV□□□3024□□S	196
0.4	2.2	-	8.6	2381	3174	1.8	403.467	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.3	2.1	-	8.1	2539	3385	1.7	430.222	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.3	1.7	-	6.7	3081	4108	1.4	522.133	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.3	1.6	-	6.2	3319	4425	1.1	562.391	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.2	1.4	-	5.5	3739	4986	1.1	633.680	GFL11-3M□□□080C42	E84AV□□□3024□□S	196
0.2	1.3	-	4.9	4195	5593	0.9	710.888	GFL11-3M□□□080C42	E84AV□□□3024□□S	196

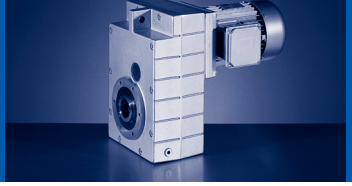
120 Hz: P_N = 4.00 kW

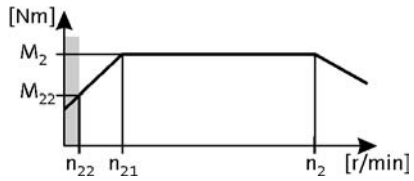
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	94	-	544	48	68	1.9	6.400	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
23	93	-	542	48	68	1.2	6.422	GFL04-2M□□□090C32	E84AV□□□4024□□0	192
23	93	-	540	48	69	2.9	6.450	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
21	85	-	495	52	75	1.1	7.025	GFL04-2M□□□090C32	E84AV□□□4024□□0	192
16	67	-	386	67	96	2.1	9.010	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
15	60	-	350	74	106	2.0	9.946	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
14	60	-	345	75	108	2.9	10.092	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
14	59	-	340	76	109	1.1	10.238	GFL04-2M□□□090C32	E84AV□□□4024□□0	192
10	41	-	239	108	155	1.5	14.538	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
9.8	41	-	236	110	157	2.9	14.743	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
9.1	38	-	219	119	169	1.4	15.904	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
9.0	37	-	216	120	172	2.8	16.128	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
8.1	34	-	194	134	191	1.2	17.920	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
8.0	33	-	192	136	194	2.3	18.169	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
7.2	30	-	172	151	216	1.2	20.286	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
7.2	30	-	172	151	216	2.9	20.286	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
7.1	29	-	169	153	219	2.2	20.571	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
6.3	26	-	152	170	243	1.0	22.857	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
6.3	26	-	152	170	243	2.9	22.857	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
6.3	26	-	150	173	247	1.8	23.175	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
5.8	24	-	140	185	265	1.1	24.850	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
5.8	24	-	138	188	268	2.1	25.200	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
5.2	21	-	124	209	298	0.9	28.000	GFL05-2M□□□090C32	E84AV□□□4024□□0	188
5.1	21	-	123	212	302	1.7	28.389	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
4.5	19	-	108	241	345	2.8	32.344	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
4.4	18	-	106	245	349	1.6	32.800	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
4.0	17	-	96	272	388	2.8	36.444	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
3.9	16	-	94	276	394	1.3	36.951	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
3.7	15	-	88	296	422	2.3	39.642	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
3.6	15	-	85	304	435	1.3	40.800	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
3.3	13	-	78	333	476	2.3	44.667	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
3.2	13	-	76	343	490	1.1	45.963	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
2.8	12	-	68	383	547	2.3	51.333	GFL09-2M□□□090C32	E84AV□□□4024□□0	188
2.8	12	-	67	388	555	1.9	52.067	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
2.8	11	-	66	394	562	1.0	52.800	GFL06-2M□□□090C32	E84AV□□□4024□□0	188
2.5	10	-	60	431	616	2.3	57.852	GFL09-2M□□□090C32	E84AV□□□4024□□0	188
2.5	10	-	59	437	625	1.7	58.667	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
2.3	9.6	-	56	465	664	2.0	62.300	GFL09-2M□□□090C32	E84AV□□□4024□□0	188
2.3	9.5	-	55	471	673	1.6	63.190	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
2.3	9.5	-	55	465	664	2.0	63.326	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
2.2	9.2	-	53	480	685	1.2	65.306	GFL07-3M□□□090C32	E84AV□□□4024□□0	196





120 Hz: P_N = 4.00 kW

n_{22} / n_2 = 1 ... 24.0

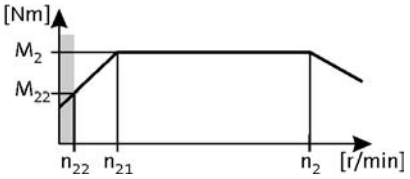
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
2.1	8.6	-	50	523	748	2.2	70.211	GFL09-2M□□□090C32	E84AV□□□4024□□0	188
2.0	8.4	-	49	531	758	1.6	71.200	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
2.0	8.3	-	48	532	760	1.1	72.452	GFL07-3M□□□090C32	E84AV□□□4024□□0	196
2.0	8.2	-	48	537	768	1.9	73.173	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
1.8	7.5	-	44	596	851	1.0	79.875	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
1.8	7.6	-	44	587	839	1.7	78.750	GFL09-2M□□□090C32	E84AV□□□4024□□0	188
1.8	7.4	-	43	600	856	1.1	81.636	GFL07-3M□□□090C32	E84AV□□□4024□□0	196
1.8	7.3	-	42	606	865	1.9	82.465	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
1.6	6.7	-	39	671	959	0.9	90.000	GFL07-2M□□□090C32	E84AV□□□4024□□0	188
1.6	6.8	-	39	662	945	1.7	88.750	GFL09-2M□□□090C32	E84AV□□□4024□□0	188
1.6	6.5	-	38	679	969	0.9	92.413	GFL07-3M□□□090C32	E84AV□□□4024□□0	196
1.6	6.4	-	37	685	979	1.6	93.333	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
1.6	6.4	-	37	687	981	3.1	93.540	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
1.4	5.8	-	33	765	1092	0.9	104.127	GFL07-3M□□□090C32	E84AV□□□4024□□0	196
1.4	5.7	-	33	772	1103	1.6	105.185	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
1.4	5.7	-	33	774	1106	3.1	105.397	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
1.3	5.3	-	30	840	1199	1.5	114.333	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
1.1	4.7	-	27	946	1352	1.5	128.852	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
1.0	4.0	-	23	1093	1561	1.3	148.815	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
1.0	4.0	-	23	1095	1565	2.4	149.144	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.9	3.6	-	21	1232	1759	1.3	167.712	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
0.9	3.6	-	21	1234	1763	2.4	168.049	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.8	3.2	-	19	1359	1942	1.1	185.111	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
0.8	3.3	-	19	1342	1918	2.1	182.792	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.7	2.9	-	17	1532	2189	1.1	208.617	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
0.7	2.9	-	17	1512	2161	2.1	205.963	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.7	3.0	-	17	1484	2120	2.5	202.074	GFL14-3M□□□090C32	E84AV□□□4024□□0	196
0.7	2.7	-	16	1651	2358	1.0	224.778	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
0.7	2.7	-	16	1650	2357	1.8	224.636	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.6	2.4	-	14	1860	2657	1.0	253.321	GFL09-3M□□□090C32	E84AV□□□4024□□0	196
0.6	2.4	-	14	1859	2655	1.8	253.111	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.5	2.3	-	13	1963	2804	1.7	267.259	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.4	1.8	-	11	2405	3436	1.5	327.556	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.4	1.7	-	9.9	2591	3701	2.2	352.811	GFL14-3M□□□090C32	E84AV□□□4024□□0	196
0.4	1.7	-	9.7	2630	3756	1.3	358.077	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.4	1.5	-	8.8	2919	4170	2.2	397.533	GFL14-3M□□□090C32	E84AV□□□4024□□0	196
0.4	1.5	-	8.6	2963	4233	1.3	403.467	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.3	1.4	-	8.1	3159	4513	1.3	430.222	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.3	1.4	-	8.1	3159	4513	2.2	430.222	GFL14-3M□□□090C32	E84AV□□□4024□□0	196
0.3	1.2	-	6.7	3834	5477	1.0	522.133	GFL11-3M□□□090C32	E84AV□□□4024□□0	196
0.3	1.2	-	6.7	3834	5477	1.8	522.133	GFL14-3M□□□090C32	E84AV□□□4024□□0	196

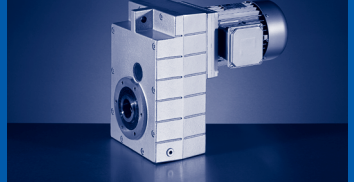
120 Hz: P_N = 4.00 kW

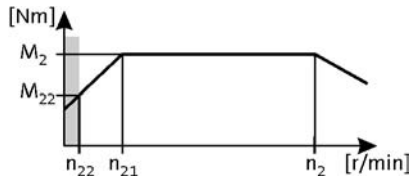
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.3	1.1	-	6.2	4130	5900	1.5	562.391	GFL14-3M□□□090C32	E84AV□□□4024□□0	196
0.2	1.0	-	5.5	4653	6648	1.4	633.680	GFL14-3M□□□090C32	E84AV□□□4024□□0	196
0.2	0.8	-	4.9	5220	7458	1.2	710.888	GFL14-3M□□□090C32	E84AV□□□4024□□0	196
0.2	0.8	-	4.3	5882	8403	1.1	801.000	GFL14-3M□□□090C32	E84AV□□□4024□□0	196





120 Hz: P_N = 5.50 kW

n_{22} / n_2 = 1 ... 24.0

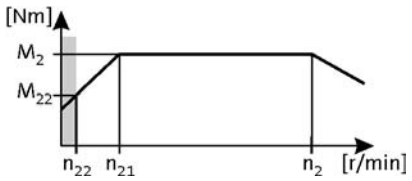
n_1 = 146.9 ... 3525 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	94	-	551	65	93	1.4	6.400	GFL05-2M□□□100C12	E84AV□□□5524□□0	188
23	93	-	547	65	93	2.8	6.450	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
16	67	-	391	91	130	1.5	9.010	GFL05-2M□□□100C12	E84AV□□□5524□□0	188
15	60	-	354	101	144	1.4	9.946	GFL05-2M□□□100C12	E84AV□□□5524□□0	188
15	60	-	349	102	146	2.4	10.092	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
10	41	-	243	147	210	1.1	14.538	GFL05-2M□□□100C12	E84AV□□□5524□□0	188
10	41	-	239	149	213	2.3	14.743	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
9.2	38	-	222	161	230	1.0	15.904	GFL05-2M□□□100C12	E84AV□□□5524□□0	188
9.1	37	-	219	163	233	2.1	16.128	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
8.2	34	-	197	181	259	0.9	17.920	GFL05-2M□□□100C12	E84AV□□□5524□□0	188
8.1	33	-	194	184	263	1.7	18.169	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
7.2	30	-	174	205	293	3.2	20.286	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
7.1	29	-	171	208	297	1.6	20.571	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
6.4	26	-	154	231	330	2.8	22.857	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
6.3	26	-	152	235	335	1.4	23.175	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
5.9	24	-	142	252	359	3.2	24.850	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
5.8	24	-	140	255	364	1.5	25.200	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
5.3	21	-	126	283	405	2.6	28.000	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
5.2	21	-	124	287	410	1.3	28.389	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
4.5	19	-	109	327	468	2.5	32.344	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
4.5	18	-	108	332	474	1.2	32.800	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
4.0	17	-	97	369	527	2.0	36.444	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
4.0	16	-	95	374	534	1.0	36.951	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
3.7	15	-	89	401	573	2.1	39.642	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
3.7	15	-	89	401	574	2.9	39.667	GFL09-2M□□□100C12	E84AV□□□5524□□0	188
3.6	15	-	86	413	590	1.0	40.800	GFL06-2M□□□100C12	E84AV□□□5524□□0	188
3.3	13	-	79	452	646	1.7	44.667	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
3.3	13	-	79	452	646	2.9	44.704	GFL09-2M□□□100C12	E84AV□□□5524□□0	188
2.9	12	-	69	520	742	2.3	51.333	GFL09-2M□□□100C12	E84AV□□□5524□□0	188
2.8	12	-	68	527	753	1.5	52.067	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
2.8	12	-	68	527	753	2.9	52.067	GFL11-2M□□□100C12	E84AV□□□5524□□0	188
2.5	10	-	61	586	836	2.3	57.852	GFL09-2M□□□100C12	E84AV□□□5524□□0	188
2.5	10	-	60	594	848	1.3	58.667	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
2.5	10	-	60	594	848	2.9	58.667	GFL11-2M□□□100C12	E84AV□□□5524□□0	188
2.4	9.6	-	57	631	901	1.9	62.300	GFL09-2M□□□100C12	E84AV□□□5524□□0	188
2.3	9.5	-	56	640	914	1.2	63.190	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
2.3	9.5	-	56	631	902	1.4	63.326	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
2.3	9.5	-	56	640	914	2.4	63.190	GFL11-2M□□□100C12	E84AV□□□5524□□0	188
2.3	9.2	-	54	651	930	2.9	65.306	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
2.1	8.4	-	50	721	1029	1.2	71.200	GFL07-2M□□□100C12	E84AV□□□5524□□0	188
2.1	8.6	-	50	711	1015	2.1	70.211	GFL09-2M□□□100C12	E84AV□□□5524□□0	188

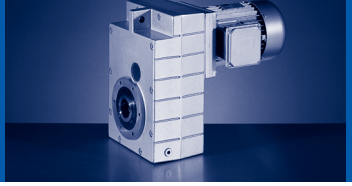
120 Hz: P_N = 5.50 kW

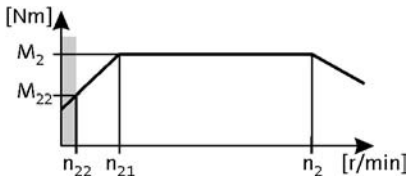
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.9 ... 3525 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
2.1	8.4	-	50	721	1029	2.7	71.200	GFL11-2M□□□100C12	E84AV□□□5524□□0	188
2.0	8.2	-	48	729	1042	1.4	73.173	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
2.0	8.2	-	48	731	1044	2.6	73.335	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
1.9	7.6	-	45	797	1139	1.4	78.750	GFL09-2M□□□100C12	E84AV□□□5524□□0	188
1.8	7.5	-	44	808	1155	2.2	79.875	GFL11-2M□□□100C12	E84AV□□□5524□□0	188
1.8	7.3	-	43	822	1174	1.4	82.465	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
1.8	7.3	-	43	824	1177	2.6	82.631	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
1.7	6.8	-	40	898	1283	1.3	88.750	GFL09-2M□□□100C12	E84AV□□□5524□□0	188
1.6	6.7	-	39	911	1301	2.2	90.000	GFL11-2M□□□100C12	E84AV□□□5524□□0	188
1.6	6.4	-	38	930	1329	1.2	93.333	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
1.6	6.4	-	38	932	1332	2.3	93.540	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
1.4	5.7	-	34	1049	1498	1.2	105.185	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
1.4	5.7	-	33	1051	1501	2.3	105.397	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
1.3	5.3	-	31	1140	1628	1.1	114.333	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
1.3	5.2	-	31	1142	1632	2.0	114.586	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
1.1	4.7	-	27	1284	1835	1.1	128.852	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
1.1	4.7	-	27	1287	1839	2.0	129.111	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
1.0	4.0	-	24	1483	2119	0.9	148.815	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
1.0	4.0	-	24	1487	2124	1.7	149.144	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.9	3.8	-	23	1557	2224	3.2	156.148	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.9	3.6	-	21	1672	2388	0.9	167.712	GFL09-3M□□□100C12	E84AV□□□5524□□0	196
0.9	3.6	-	21	1675	2393	1.7	168.049	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.8	3.3	-	19	1822	2603	1.5	182.792	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.7	2.9	-	17	2053	2933	1.5	205.963	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.7	3.0	-	17	2014	2878	2.6	202.074	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.7	2.7	-	16	2239	3199	1.3	224.636	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.7	2.7	-	16	2239	3199	2.6	224.636	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.6	2.4	-	14	2523	3604	1.3	253.111	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.6	2.4	-	14	2523	3604	2.6	253.111	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.6	2.3	-	13	2664	3806	1.3	267.259	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.5	2.2	-	13	2729	3899	2.4	273.778	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.5	1.8	-	11	3265	4665	1.1	327.556	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.4	1.8	-	11	3314	4734	2.1	332.444	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.4	1.7	-	10	3517	5024	2.0	352.811	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.4	1.7	-	9.8	3569	5099	1.0	358.077	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.4	1.5	-	8.9	3963	5661	1.9	397.533	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.4	1.5	-	8.7	4022	5745	1.0	403.467	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.3	1.4	-	8.2	4289	6126	0.9	430.222	GFL11-3M□□□100C12	E84AV□□□5524□□0	196
0.3	1.4	-	8.2	4289	6126	1.6	430.222	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.3	1.2	-	6.8	5205	7435	1.3	522.133	GFL14-3M□□□100C12	E84AV□□□5524□□0	196
0.3	1.1	-	6.3	5606	8009	1.1	562.391	GFL14-3M□□□100C12	E84AV□□□5524□□0	196





120 Hz: P_N = 5.50 kW

n_{22} / n_2 = 1 ... 24.0

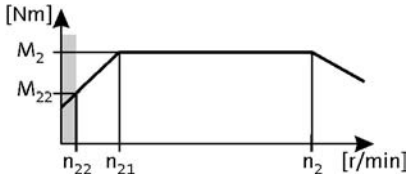
n_1 = 146.9 ... 3525 r/min

n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
0.2	1.0	-	5.6	6317	9024	1.0	633.680	GFL14-3M□□□100C12	E84AV□□□5524□□0	196

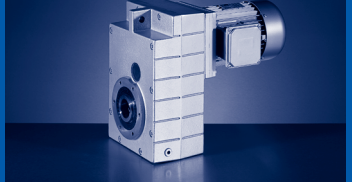
120 Hz: P_N = 7.50 kW

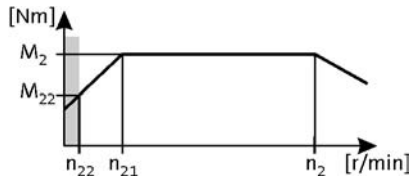
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.5 ... 3515 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	94	-	549	89	127	1.0	6.400	GFL05-2M□□□100C32	E84AV□□□7524□□0	188
23	94	-	549	89	127	3.0	6.400	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
23	93	-	545	89	128	2.1	6.450	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
16	67	-	390	125	178	1.1	9.010	GFL05-2M□□□100C32	E84AV□□□7524□□0	188
15	62	-	362	134	192	3.1	9.714	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
15	60	-	353	138	197	1.1	9.946	GFL05-2M□□□100C32	E84AV□□□7524□□0	188
15	60	-	348	140	200	1.7	10.092	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
10	42	-	248	197	281	3.1	14.200	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
9.9	41	-	238	204	292	1.7	14.743	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
9.2	38	-	221	220	314	2.8	15.904	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
9.1	37	-	218	223	319	1.5	16.128	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
8.2	34	-	196	248	354	2.5	17.920	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
8.1	33	-	194	251	359	1.3	18.169	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
7.5	31	-	179	272	389	3.1	19.667	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
7.2	30	-	173	281	401	2.4	20.286	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
7.1	29	-	171	285	407	1.2	20.571	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
6.6	27	-	159	307	438	3.1	22.164	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
6.4	26	-	154	316	452	2.1	22.857	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
6.3	26	-	152	321	458	1.0	23.175	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
5.9	24	-	141	344	491	2.3	24.850	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
5.8	24	-	140	349	498	1.1	25.200	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
5.2	21	-	126	388	554	1.9	28.000	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
5.2	21	-	124	393	561	0.9	28.389	GFL06-2M□□□100C32	E84AV□□□7524□□0	188
4.5	19	-	109	448	640	1.8	32.344	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
4.5	18	-	108	452	646	2.5	32.667	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
4.0	17	-	96	504	721	1.5	36.444	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
4.0	16	-	96	510	728	2.5	36.815	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
3.7	15	-	89	549	784	1.5	39.642	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
3.7	15	-	89	549	784	2.1	39.667	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
3.3	13	-	79	618	883	1.2	44.667	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
3.3	13	-	79	619	884	2.1	44.704	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
2.9	12	-	69	710	1015	1.7	51.333	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
2.8	12	-	68	721	1029	1.1	52.067	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
2.8	12	-	68	721	1029	2.1	52.067	GFL11-2M□□□100C32	E84AV□□□7524□□0	188
2.5	10	-	61	801	1144	1.7	57.852	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
2.5	10	-	60	812	1160	0.9	58.667	GFL07-2M□□□100C32	E84AV□□□7524□□0	188
2.5	10	-	60	812	1160	2.1	58.667	GFL11-2M□□□100C32	E84AV□□□7524□□0	188
2.3	9.5	-	56	863	1233	1.0	63.326	GFL09-3M□□□100C32	E84AV□□□7524□□0	196
2.4	9.6	-	56	862	1232	1.4	62.300	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
2.3	9.5	-	56	875	1249	1.8	63.190	GFL11-2M□□□100C32	E84AV□□□7524□□0	188
2.2	9.2	-	54	890	1272	2.2	65.306	GFL11-3M□□□100C32	E84AV□□□7524□□0	196





120 Hz: P_N = 7.50 kW

n_{22} / n_2 = 1 ... 24.0

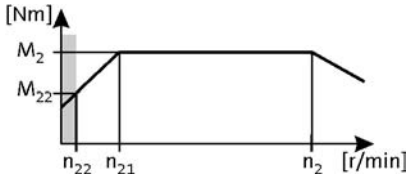
n_1 = 146.5 ... 3515 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
2.1	8.6	-	50	972	1388	1.6	70.211	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
2.1	8.4	-	49	985	1408	2.0	71.200	GFL11-2M□□□100C32	E84AV□□□7524□□0	188
2.0	8.2	-	48	998	1425	1.0	73.173	GFL09-3M□□□100C32	E84AV□□□7524□□0	196
2.0	8.2	-	48	1000	1428	1.9	73.335	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
1.9	7.6	-	45	1090	1557	1.0	78.750	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
1.8	7.5	-	44	1105	1579	1.6	79.875	GFL11-2M□□□100C32	E84AV□□□7524□□0	188
1.8	7.3	-	43	1124	1606	1.0	82.465	GFL09-3M□□□100C32	E84AV□□□7524□□0	196
1.8	7.3	-	43	1126	1609	1.9	82.631	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
1.7	6.8	-	40	1228	1755	1.0	88.750	GFL09-2M□□□100C32	E84AV□□□7524□□0	188
1.6	6.7	-	39	1246	1779	1.6	90.000	GFL11-2M□□□100C32	E84AV□□□7524□□0	188
1.6	6.4	-	38	1275	1822	1.7	93.540	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
1.4	5.7	-	34	1430	2043	2.7	104.889	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
1.4	5.7	-	33	1437	2053	1.7	105.397	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
1.3	5.2	-	31	1562	2231	1.5	114.586	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
1.3	5.3	-	31	1556	2223	2.7	114.126	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
1.1	4.7	-	27	1760	2514	1.5	129.111	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
1.1	4.7	-	27	1753	2504	2.7	128.593	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
1.0	4.0	-	24	2033	2904	1.3	149.144	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
0.9	3.8	-	23	2129	3041	2.3	156.148	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.9	3.6	-	21	2291	3273	1.3	168.049	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
0.9	3.5	-	21	2318	3312	2.4	170.074	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.8	3.3	-	19	2492	3560	1.1	182.792	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
0.7	2.9	-	17	2808	4011	1.1	205.963	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
0.7	3.0	-	17	2755	3935	1.9	202.074	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.7	2.7	-	16	3062	4375	1.0	224.636	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
0.7	2.7	-	16	3062	4375	1.9	224.636	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.6	2.4	-	14	3450	4929	1.0	253.111	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
0.6	2.4	-	14	3450	4929	1.9	253.111	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.6	2.3	-	13	3643	5205	0.9	267.259	GFL11-3M□□□100C32	E84AV□□□7524□□0	196
0.5	2.2	-	13	3732	5332	1.7	273.778	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.4	1.8	-	11	4532	6474	1.5	332.444	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.4	1.7	-	10	4809	6871	1.4	352.811	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.4	1.5	-	8.8	5419	7741	1.4	397.533	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.3	1.4	-	8.2	5865	8378	1.2	430.222	GFL14-3M□□□100C32	E84AV□□□7524□□0	196
0.3	1.2	-	6.7	7118	10168	1.0	522.133	GFL14-3M□□□100C32	E84AV□□□7524□□0	196

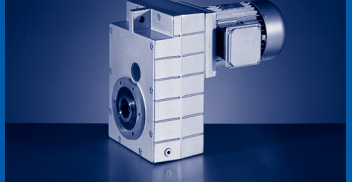
120 Hz: P_N = 11.00 kW

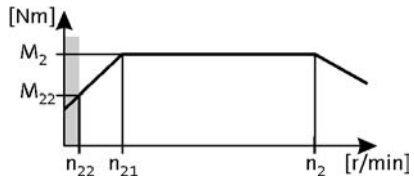
n_{22} / n_2 = 1 ... 24.0

n_1 = 147.1 ... 3530 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	94	-	552	118	185	2.3	6.400	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
23	93	-	547	119	186	1.4	6.450	GFL06-2M□□□112C22	E84AV□□□1134□□0	188
16	67	-	392	167	260	3.2	9.010	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
15	62	-	363	180	281	2.4	9.714	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
15	61	-	360	181	283	3.2	9.799	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
15	60	-	350	187	291	1.2	10.092	GFL06-2M□□□112C22	E84AV□□□1134□□0	188
13	54	-	316	206	322	2.9	11.167	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
10	42	-	249	262	410	2.1	14.200	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
10	42	-	246	265	414	3.2	14.333	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
10	41	-	239	272	426	1.1	14.743	GFL06-2M□□□112C22	E84AV□□□1134□□0	188
9.3	38	-	222	294	459	1.9	15.904	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
9.1	37	-	219	298	466	1.0	16.128	GFL06-2M□□□112C22	E84AV□□□1134□□0	188
9.0	37	-	216	302	472	2.9	16.333	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
8.2	34	-	197	331	517	1.7	17.920	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
8.0	33	-	192	340	532	2.9	18.407	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
7.5	31	-	180	363	568	2.5	19.667	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
7.3	30	-	174	375	586	1.6	20.286	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
7.3	30	-	174	375	586	3.1	20.286	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
6.6	27	-	159	410	640	2.5	22.164	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
6.4	26	-	154	422	660	1.4	22.857	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
6.4	26	-	154	422	660	3.1	22.857	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
6.1	25	-	146	446	696	2.5	24.111	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
5.9	24	-	142	459	718	1.6	24.850	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
5.4	22	-	130	502	785	2.5	27.173	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
5.3	21	-	126	517	808	1.3	28.000	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
4.6	19	-	109	598	934	1.3	32.344	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
4.5	18	-	108	604	943	1.9	32.667	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
4.5	18	-	108	605	945	2.5	32.739	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
4.0	17	-	97	673	1052	1.0	36.444	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
4.0	16	-	96	680	1063	1.9	36.815	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
4.0	16	-	96	682	1065	2.5	36.889	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
3.7	15	-	89	733	1145	1.0	39.642	GFL07-2M□□□112C22	E84AV□□□1134□□0	188
3.7	15	-	89	733	1145	1.7	39.667	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
3.7	15	-	88	744	1162	2.1	40.233	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
3.3	13	-	79	826	1291	1.7	44.704	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
3.2	13	-	78	838	1309	2.1	45.333	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
2.9	12	-	69	949	1482	1.3	51.333	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
2.8	12	-	68	962	1503	1.6	52.067	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
2.8	12	-	68	962	1503	2.0	52.067	GFL14-2M□□□112C22	E84AV□□□1134□□0	188
2.5	10	-	61	1069	1670	1.3	57.852	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
2.5	10	-	60	1084	1694	1.6	58.667	GFL11-2M□□□112C22	E84AV□□□1134□□0	188





120 Hz: P_N = 11.00 kW

n_{22} / n_2 = 1 ... 24.0

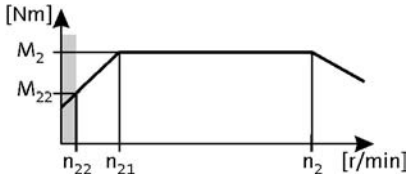
n_1 = 147.1 ... 3530 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
2.5	10	-	60	1084	1694	2.0	58.667	GFL14-2M□□□112C22	E84AV□□□1134□□0	188
2.4	9.6	-	57	1151	1799	1.1	62.300	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
2.3	9.5	-	56	1168	1825	1.4	63.190	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
2.3	9.5	-	56	1168	1825	1.7	63.190	GFL14-2M□□□112C22	E84AV□□□1134□□0	188
2.3	9.3	-	55	1170	1829	2.6	64.296	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
2.3	9.2	-	54	1189	1857	1.5	65.306	GFL11-3M□□□112C22	E84AV□□□1134□□0	196
2.1	8.7	-	51	1251	1954	2.6	68.708	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
2.1	8.6	-	50	1297	2027	1.2	70.211	GFL09-2M□□□112C22	E84AV□□□1134□□0	188
2.1	8.4	-	50	1316	2056	1.5	71.200	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
2.1	8.4	-	50	1316	2056	1.9	71.200	GFL14-2M□□□112C22	E84AV□□□1134□□0	188
2.0	8.2	-	48	1335	2086	1.3	73.335	GFL11-3M□□□112C22	E84AV□□□1134□□0	196
1.9	7.8	-	46	1409	2202	2.6	77.418	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
1.8	7.5	-	44	1476	2306	1.2	79.875	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
1.8	7.5	-	44	1476	2306	1.5	79.875	GFL14-2M□□□112C22	E84AV□□□1134□□0	188
1.8	7.3	-	43	1504	2350	1.3	82.631	GFL11-3M□□□112C22	E84AV□□□1134□□0	196
1.7	7.1	-	42	1548	2419	2.5	85.037	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
1.6	6.7	-	39	1663	2599	1.2	90.000	GFL11-2M□□□112C22	E84AV□□□1134□□0	188
1.6	6.7	-	39	1663	2599	1.5	90.000	GFL14-2M□□□112C22	E84AV□□□1134□□0	188
1.6	6.4	-	38	1703	2660	1.1	93.540	GFL11-3M□□□112C22	E84AV□□□1134□□0	196
1.4	5.7	-	34	1918	2998	1.1	105.397	GFL11-3M□□□112C22	E84AV□□□1134□□0	196
1.4	5.7	-	34	1909	2983	2.1	104.889	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
1.3	5.2	-	31	2086	3259	1.0	114.586	GFL11-3M□□□112C22	E84AV□□□1134□□0	196
1.3	5.3	-	31	2077	3246	2.0	114.126	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
1.1	4.7	-	28	2341	3657	2.0	128.593	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
1.1	4.7	-	27	2350	3672	1.0	129.111	GFL11-3M□□□112C22	E84AV□□□1134□□0	196
1.1	4.4	-	26	2492	3893	1.8	136.889	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.9	3.8	-	23	2842	4441	1.8	156.148	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.9	3.5	-	21	3096	4837	1.6	170.074	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.7	3.0	-	18	3678	5747	1.5	202.074	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.7	2.7	-	16	4089	6389	1.3	224.636	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.6	2.4	-	14	4607	7199	1.3	253.111	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.5	2.2	-	13	4983	7786	1.2	273.778	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.4	1.8	-	11	6051	9455	1.1	332.444	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.4	1.7	-	10	6422	10034	1.0	352.811	GFL14-3M□□□112C22	E84AV□□□1134□□0	196
0.4	1.5	-	8.9	7236	11306	1.0	397.533	GFL14-3M□□□112C22	E84AV□□□1134□□0	196

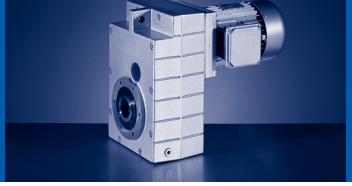
120 Hz: P_N = 15.00 kW

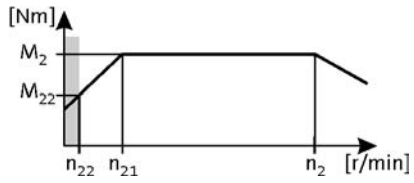
n_{22} / n_2 = 1 ... 24.0

n_1 = 148.3 ... 3560 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	94	-	556	160	250	2.0	6.400	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
17	67	-	395	225	352	4.3	9.010	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
15	62	-	367	243	379	1.9	9.714	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
13	54	-	319	279	436	4.0	11.167	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
10	42	-	251	355	554	1.5	14.200	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
10	42	-	248	358	560	3.2	14.333	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
9.3	38	-	224	397	621	1.4	15.904	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
9.1	37	-	218	408	638	2.9	16.333	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
8.3	34	-	199	448	700	1.3	17.920	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
8.1	33	-	193	460	719	2.6	18.407	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
7.5	31	-	181	491	768	2.5	19.667	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
7.3	30	-	176	507	792	1.2	20.286	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
6.7	27	-	161	554	865	2.3	22.164	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
6.5	26	-	156	571	892	1.0	22.857	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
6.2	25	-	148	602	941	2.5	24.111	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
6.0	24	-	143	621	970	1.2	24.850	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
5.5	22	-	131	679	1061	2.2	27.173	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
5.3	21	-	127	700	1093	1.0	28.000	GFL07-2M□□□132C12	E84AV□□□1534□□0	188
4.5	18	-	109	816	1275	2.0	32.667	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
4.5	18	-	109	818	1278	3.1	32.739	GFL11-2M□□□132C12	E84AV□□□1534□□0	188
4.0	16	-	97	920	1437	1.8	36.815	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
4.0	16	-	97	922	1440	2.7	36.889	GFL11-2M□□□132C12	E84AV□□□1534□□0	188
3.7	15	-	90	991	1549	1.7	39.667	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
3.7	15	-	89	1005	1571	2.6	40.233	GFL11-2M□□□132C12	E84AV□□□1534□□0	188
3.3	13	-	80	1117	1745	1.5	44.704	GFL09-2M□□□132C12	E84AV□□□1534□□0	188
3.3	13	-	79	1133	1770	2.3	45.333	GFL11-2M□□□132C12	E84AV□□□1534□□0	188
2.9	12	-	68	1301	2033	2.2	52.067	GFL11-2M□□□132C12	E84AV□□□1534□□0	188
2.9	12	-	68	1301	2033	3.2	52.067	GFL14-2M□□□132C12	E84AV□□□1534□□0	188
2.5	10	-	61	1466	2290	2.0	58.667	GFL11-2M□□□132C12	E84AV□□□1534□□0	188
2.5	10	-	61	1466	2290	3.2	58.667	GFL14-2M□□□132C12	E84AV□□□1534□□0	188
2.4	9.5	-	56	1579	2467	1.9	63.190	GFL11-2M□□□132C12	E84AV□□□1534□□0	188
2.4	9.5	-	56	1579	2467	2.7	63.190	GFL14-2M□□□132C12	E84AV□□□1534□□0	188
2.3	9.2	-	55	1607	2511	1.1	65.306	GFL11-3M□□□132C12	E84AV□□□1534□□0	196
2.3	9.3	-	55	1582	2473	1.9	64.296	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
2.2	8.7	-	52	1691	2642	1.9	68.708	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
2.1	8.4	-	50	1779	2780	1.9	71.200	GFL11-2M□□□132C12	E84AV□□□1534□□0	188
2.1	8.4	-	50	1779	2780	3.0	71.200	GFL14-2M□□□132C12	E84AV□□□1534□□0	188
2.0	8.2	-	49	1805	2820	1.0	73.335	GFL11-3M□□□132C12	E84AV□□□1534□□0	196
1.9	7.8	-	46	1905	2977	1.9	77.418	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
1.9	7.5	-	45	1996	3118	2.1	79.875	GFL14-2M□□□132C12	E84AV□□□1534□□0	188
1.8	7.3	-	43	2034	3178	1.0	82.631	GFL11-3M□□□132C12	E84AV□□□1534□□0	196





120 Hz: P_N = 15.00 kW

n_{22} / n_2 = 1 ... 24.0

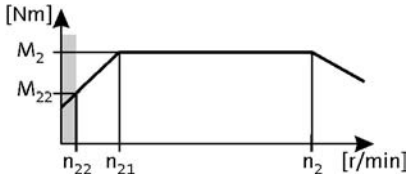
n_1 = 148.3 ... 3560 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.7	7.1	-	42	2093	3270	1.8	85.037	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
1.7	6.7	-	40	2249	3514	2.1	90.000	GFL14-2M□□□132C12	E84AV□□□1534□□0	188
1.4	5.7	-	34	2581	4034	1.6	104.889	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
1.3	5.3	-	31	2809	4389	1.4	114.126	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
1.2	4.7	-	28	3165	4945	1.4	128.593	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
1.1	4.4	-	26	3369	5264	1.3	136.889	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
1.0	3.8	-	23	3843	6005	1.3	156.148	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
0.9	3.5	-	21	4186	6540	1.2	170.074	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
0.7	2.7	-	16	5529	8638	1.0	224.636	GFL14-3M□□□132C12	E84AV□□□1534□□0	196
0.6	2.4	-	14	6229	9733	1.0	253.111	GFL14-3M□□□132C12	E84AV□□□1534□□0	196

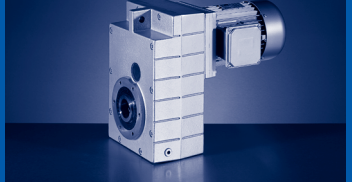
120 Hz: P_N = 18.50 kW

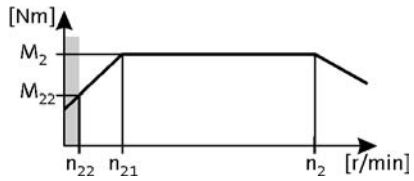
n_{22} / n_2 = 1 ... 24.0

n_1 = 148.3 ... 3560 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	94	-	556	197	308	1.6	6.400	GFL07-2M□□□132C22	E84AV□□□1834□□0	188
17	67	-	395	278	434	3.5	9.010	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
15	62	-	367	299	468	1.6	9.714	GFL07-2M□□□132C22	E84AV□□□1834□□0	188
13	54	-	319	344	538	3.2	11.167	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
10	42	-	251	438	684	1.3	14.200	GFL07-2M□□□132C22	E84AV□□□1834□□0	188
10	42	-	248	442	690	2.6	14.333	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
9.3	38	-	224	490	766	1.2	15.904	GFL07-2M□□□132C22	E84AV□□□1834□□0	188
9.1	37	-	218	503	787	2.3	16.333	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
8.3	34	-	199	552	863	1.0	17.920	GFL07-2M□□□132C22	E84AV□□□1834□□0	188
8.1	33	-	193	567	886	2.1	18.407	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
7.5	31	-	181	606	947	2.0	19.667	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
7.3	30	-	176	625	977	1.0	20.286	GFL07-2M□□□132C22	E84AV□□□1834□□0	188
7.3	30	-	176	625	977	3.1	20.286	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
6.7	27	-	161	683	1067	1.8	22.164	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
6.5	26	-	156	704	1101	2.8	22.857	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
6.2	25	-	148	743	1161	2.0	24.111	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
6.0	24	-	143	766	1197	1.0	24.850	GFL07-2M□□□132C22	E84AV□□□1834□□0	188
6.0	24	-	143	766	1197	3.0	24.850	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
5.5	22	-	131	837	1308	1.8	27.173	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
5.3	21	-	127	863	1348	2.7	28.000	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
4.5	18	-	109	1007	1573	1.6	32.667	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
4.5	18	-	109	1009	1576	2.5	32.739	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
4.0	16	-	97	1135	1773	1.5	36.815	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
4.0	16	-	97	1137	1776	2.2	36.889	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
3.7	15	-	90	1222	1910	1.4	39.667	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
3.7	15	-	90	1222	1909	3.2	39.642	GFL14-2M□□□132C22	E84AV□□□1834□□0	188
3.7	15	-	89	1240	1937	2.1	40.233	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
3.3	13	-	80	1378	2153	1.2	44.704	GFL09-2M□□□132C22	E84AV□□□1834□□0	188
3.3	13	-	80	1377	2151	3.2	44.667	GFL14-2M□□□132C22	E84AV□□□1834□□0	188
3.3	13	-	79	1397	2183	1.9	45.333	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
2.9	12	-	68	1605	2507	1.8	52.067	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
2.9	12	-	68	1605	2507	2.6	52.067	GFL14-2M□□□132C22	E84AV□□□1834□□0	188
2.5	10	-	61	1808	2825	1.6	58.667	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
2.5	10	-	61	1808	2825	2.6	58.667	GFL14-2M□□□132C22	E84AV□□□1834□□0	188
2.4	9.5	-	56	1947	3043	1.6	63.190	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
2.4	9.5	-	56	1947	3043	2.2	63.190	GFL14-2M□□□132C22	E84AV□□□1834□□0	188
2.3	9.3	-	55	1952	3049	1.6	64.296	GFL14-3M□□□132C22	E84AV□□□1834□□0	196
2.2	8.7	-	52	2086	3259	1.6	68.708	GFL14-3M□□□132C22	E84AV□□□1834□□0	196
2.1	8.4	-	50	2194	3428	1.5	71.200	GFL11-2M□□□132C22	E84AV□□□1834□□0	188
2.1	8.4	-	50	2194	3428	2.4	71.200	GFL14-2M□□□132C22	E84AV□□□1834□□0	188
1.9	7.8	-	46	2350	3672	1.6	77.418	GFL14-3M□□□132C22	E84AV□□□1834□□0	196





120 Hz: P_N = 18.50 kW

n_{22} / n_2 = 1 ... 24.0

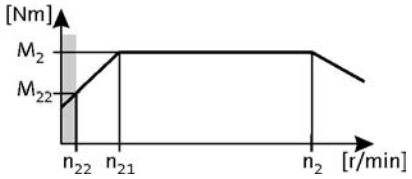
n_1 = 148.3 ... 3560 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.9	7.5	-	45	2461	3846	1.7	79.875	GFL14-2M□□□132C22	E84AV□□□1834□□0	188
1.7	7.1	-	42	2581	4033	1.5	85.037	GFL14-3M□□□132C22	E84AV□□□1834□□0	196
1.7	6.7	-	40	2773	4334	1.7	90.000	GFL14-2M□□□132C22	E84AV□□□1834□□0	188
1.4	5.7	-	34	3184	4975	1.3	104.889	GFL14-3M□□□132C22	E84AV□□□1834□□0	196
1.3	5.3	-	31	3464	5413	1.2	114.126	GFL14-3M□□□132C22	E84AV□□□1834□□0	196
1.2	4.7	-	28	3903	6099	1.2	128.593	GFL14-3M□□□132C22	E84AV□□□1834□□0	196
1.1	4.4	-	26	4155	6492	1.1	136.889	GFL14-3M□□□132C22	E84AV□□□1834□□0	196
1.0	3.8	-	23	4740	7406	1.0	156.148	GFL14-3M□□□132C22	E84AV□□□1834□□0	196
0.9	3.5	-	21	5162	8066	1.0	170.074	GFL14-3M□□□132C22	E84AV□□□1834□□0	196

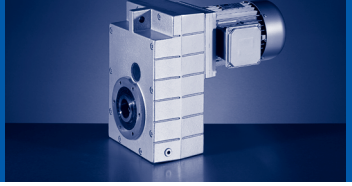
120 Hz: P_N = 22.00 kW

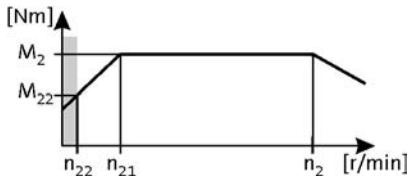
n_{22} / n_2 = 1 ... 24.0

n_1 = 147.9 ... 3550 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	394	331	517	3.0	9.010	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
15	61	-	362	360	563	3.0	9.799	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
14	56	-	331	394	616	3.2	10.720	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
13	54	-	318	410	641	2.7	11.167	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
10	42	-	248	527	823	2.2	14.333	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
9.3	38	-	223	585	913	3.1	15.904	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
9.1	37	-	217	600	938	2.0	16.333	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
8.3	34	-	198	659	1029	2.8	17.920	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
8.0	33	-	193	677	1057	1.8	18.407	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
7.5	31	-	181	723	1129	1.7	19.667	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
7.3	30	-	175	746	1165	2.6	20.286	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
6.7	27	-	160	815	1273	1.5	22.164	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
6.5	26	-	155	840	1313	2.3	22.857	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
6.1	25	-	147	886	1385	1.7	24.111	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
6.0	24	-	143	913	1427	2.6	24.850	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
5.4	22	-	131	999	1560	1.5	27.173	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
5.3	21	-	127	1029	1608	2.3	28.000	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
4.6	19	-	110	1189	1857	2.9	32.344	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
4.5	18	-	109	1201	1876	1.4	32.667	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
4.5	18	-	108	1203	1880	2.1	32.739	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
4.1	17	-	97	1339	2093	2.9	36.444	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
4.0	16	-	96	1353	2114	1.2	36.815	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
4.0	16	-	96	1356	2118	1.9	36.889	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
3.7	15	-	90	1458	2278	1.2	39.667	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
3.7	15	-	90	1457	2276	2.7	39.642	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
3.7	15	-	88	1479	2310	1.8	40.233	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
3.3	13	-	80	1642	2565	2.7	44.667	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
3.3	13	-	79	1643	2567	1.0	44.704	GFL09-2M□□□132C32	E84AV□□□2234□□0	188
3.3	13	-	78	1666	2603	1.6	45.333	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
2.8	12	-	68	1913	2990	1.5	52.067	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
2.8	12	-	68	1913	2990	2.2	52.067	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
2.5	10	-	61	2156	3369	1.3	58.667	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
2.5	10	-	61	2156	3369	2.2	58.667	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
2.3	9.5	-	56	2322	3628	1.3	63.190	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
2.3	9.5	-	56	2322	3628	1.8	63.190	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
2.3	9.3	-	55	2327	3637	1.3	64.296	GFL14-3M□□□132C32	E84AV□□□2234□□0	196
2.2	8.7	-	52	2487	3886	1.3	68.708	GFL14-3M□□□132C32	E84AV□□□2234□□0	196
2.1	8.4	-	50	2617	4088	1.3	71.200	GFL11-2M□□□132C32	E84AV□□□2234□□0	188
2.1	8.4	-	50	2617	4088	2.0	71.200	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
1.9	7.8	-	46	2802	4379	1.3	77.418	GFL14-3M□□□132C32	E84AV□□□2234□□0	196
1.9	7.5	-	44	2935	4587	1.4	79.875	GFL14-2M□□□132C32	E84AV□□□2234□□0	188





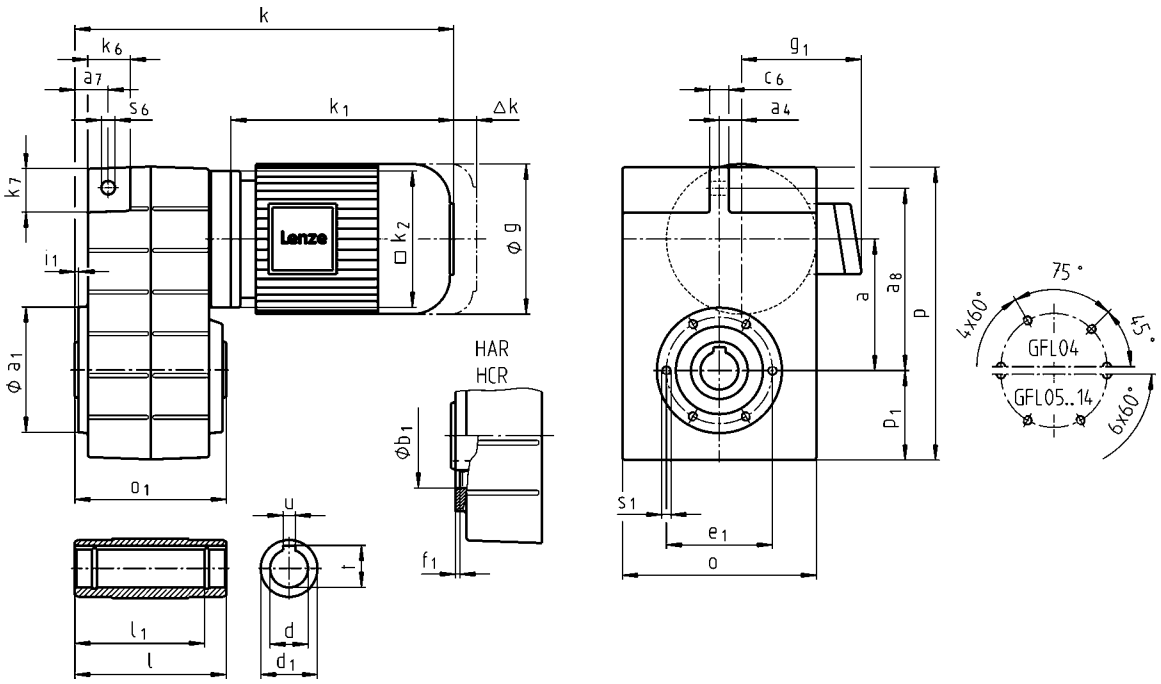
120 Hz: P_N = 22.00 kW

n_{22} / n_2 = 1 ... 24.0

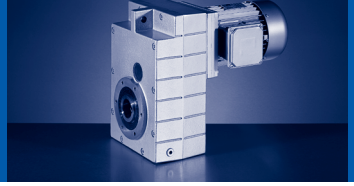
n_1 = 147.9 ... 3550 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.7	7.1	-	42	3078	4810	1.2	85.037	GFL14-3M□□□132C32	E84AV□□□2234□□0	196
1.6	6.7	-	39	3307	5168	1.4	90.000	GFL14-2M□□□132C32	E84AV□□□2234□□0	188
1.4	5.7	-	34	3797	5933	1.1	104.889	GFL14-3M□□□132C32	E84AV□□□2234□□0	196
1.3	5.3	-	31	4131	6455	1.0	114.126	GFL14-3M□□□132C32	E84AV□□□2234□□0	196
1.2	4.7	-	28	4655	7273	1.0	128.593	GFL14-3M□□□132C32	E84AV□□□2234□□0	196

GFL□□-2M H□R


k
k6
a7
s6
k1
Δk
k7
i1
□k2
Φg
Φa1
HAR
HCR
Φb1
f1
o1
u
l1
l
d
d1
g1
c6
a4
a
a8
p
p1
s1
e1
o
75°
4x60°
45°
GFL04
GFL05..14
6x60°

4



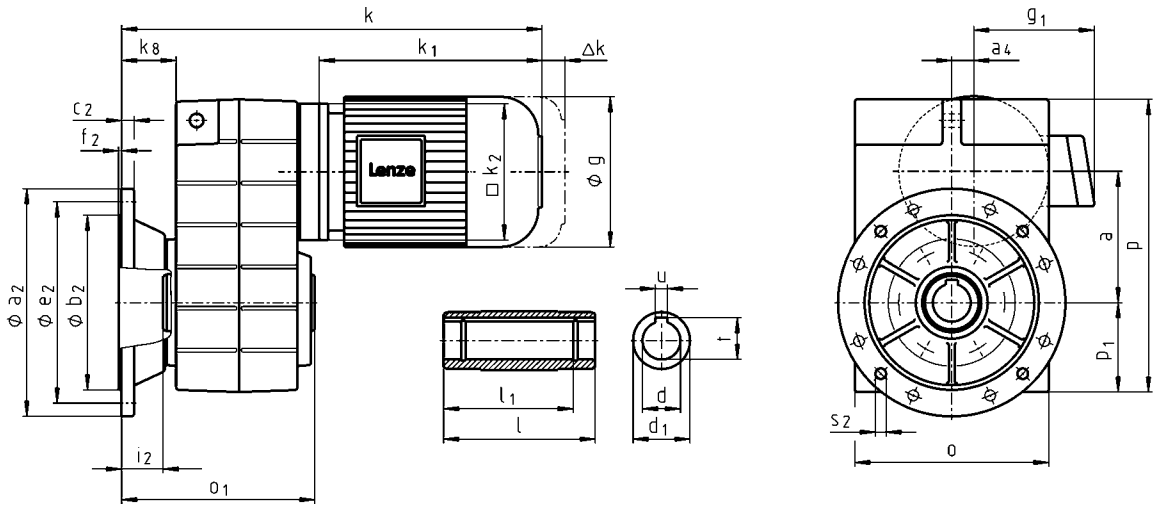
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GFL04		312	332	354					
GFL05		333	353	376	435	485			
GFL06		346	366	389	448	498	543		
GFL07				422	481	531	576	624	
GFL09					515	565	610	658	
GFL11						606	651	699	
GFL14							696	744	

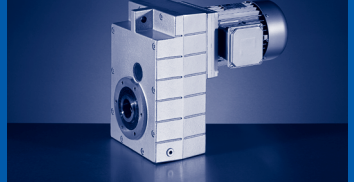
	a	a_4	a_7	a_8	c_6	k_6	k_7	$o^{1)}$	$p^{1)}$	p_1	s_6
GFL04	90.5	12.5	22.5	128	14	32	35	148	214	69	12.5
GFL05	112.5	18.5	29	155	16	35	38	165	252	78	14
GFL06	140	22	35	195	20	46	46	206	315	98	14
GFL07	173	29	44	240	25	56	56	256	386	118	18
GFL09	220	37.5	50	300	32	70	70	318	486	149	22
GFL11	276.5	50	65	375	40	84	90	395	600	181	26
GFL14	339	65	80	455	50	100	114	490	740	228	32

	$d^{2)}$	d_1	l	l_1	u	t	i_1	o_1	a_1	b_1	e_1	f_1	s_1
	H7				JS9	+0,2				H7			
GFL04	25 30	45 45	115 115	100 100	8 8	28.3 33.3	2.5 2.5	115 115	110	75	90	3	M6x12
GFL05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	4 4	140 140	118	80	100	4	M8x14
GFL06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	5 5	160 160	140	100	120	4	M10x16
GFL07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	5 5	200 200	165	115	140	5	M12x18
GFL09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	5 5	240 240	205	145	175	6	M16x24
GFL11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	6 6	290 290	240	140	205	6	M20x32
GFL14	100	135	350	305	28	106.4	7	350	290	170	250	6	M24x35

1) k_2 !
2) Not suitable for through machine shaft at motor end:
GFL04-2M H□□ 080C□□; d=30
GFL05-2M H□□ 100C□□; d=35
GFL07-2M H□□ 160C□□; d=50/55
GFL11-2M H□□ 225C□□; d=80

GFL□□-2M HCK


k
k8
k1
Δk
c2
f2
Lenze
□k2
ϕ g
ϕ a2
ϕ e2
ϕ b2
i2
o1
c
t
l1
l
d
d1
g1
a4
a
p
p1
s2
o



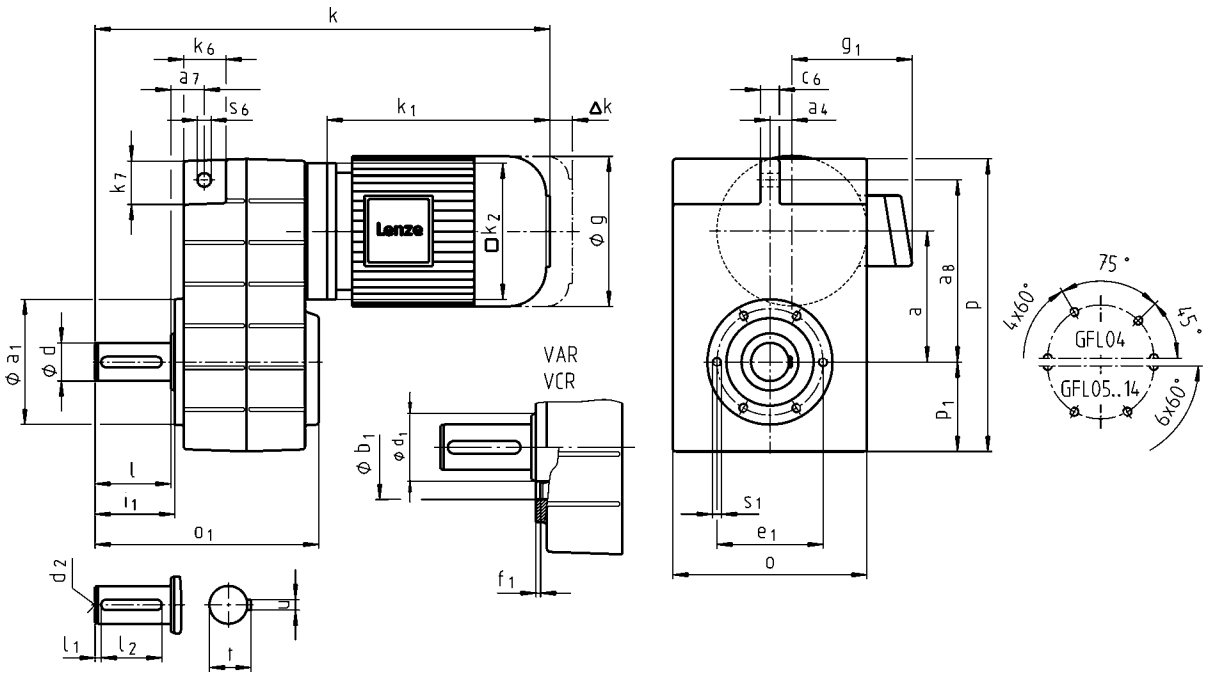
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GFL04		345	365	387					
GFL05		366	386	409	468	518			
GFL06		387	407	430	489	539	584		
GFL07				477	536	586	631	679	
GFL09					575	625	670	718	
GFL11						666	711	759	
GFL14							756	804	

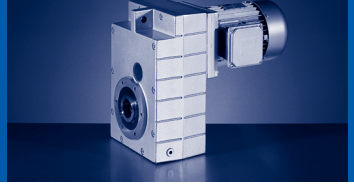
	a	a_4	k_8	$o^{1)}$	$p^{1)}$	p_1
GFL04	90.5	12.5	41.8	148	214	69
GFL05	112.5	18.5	46	165	252	78
GFL06	140	22	55.5	206	315	98
GFL07	173	29	72.5	256	386	118
GFL09	220	37.5	77.5	318	486	149
GFL11	276.5	50	85.5	395	600	181
GFL14	339	65	89.5	490	740	228

	$d^{2)}$	d_1	l	l_1	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	H7				JS9	+0,2				j7				
GFL04	25 30	45 45	115 115	100 100	8 8	28.3 33.3	33 33	148 148	160	110	10	130	3.5	4 x 9
GFL05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	33 33	173 173	200	130	12	165	4	4 x 11
GFL06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	42 41	201 201	250	180	15	215	4	4 x 14
GFL07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	55 55	255 255	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GFL09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	60 60	300 300	350	250	18	300	4	4 x 17.5
GFL11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	60 60	350 350	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GFL14	100	135	350	305	28	106.4	60	410	450	350	22	400	5	8 x 18.5

1) k_2 !
2) Not suitable for through machine shaft at motor end:
GFL04-2M H□□ 080C□□; d=30
GFL05-2M H□□ 100C□□; d=35
GFL07-2M H□□ 160C□□; d=50/55
GFL11-2M H□□ 225C□□; d=80

GFL□□-2M V□R


k
k6
a7
s6
k1
Δk
k7
Lenze
□k2
φ g
φ a1
φ d
l
l1
o1
VAR
VCR
φ b1
φ d1
f1
d2
l1
l2
t
g1
c6
a4
a
a8
p
p1
s1
e1
o
75°
4x60°
45°
GFL04
GFL05..14
6x60°



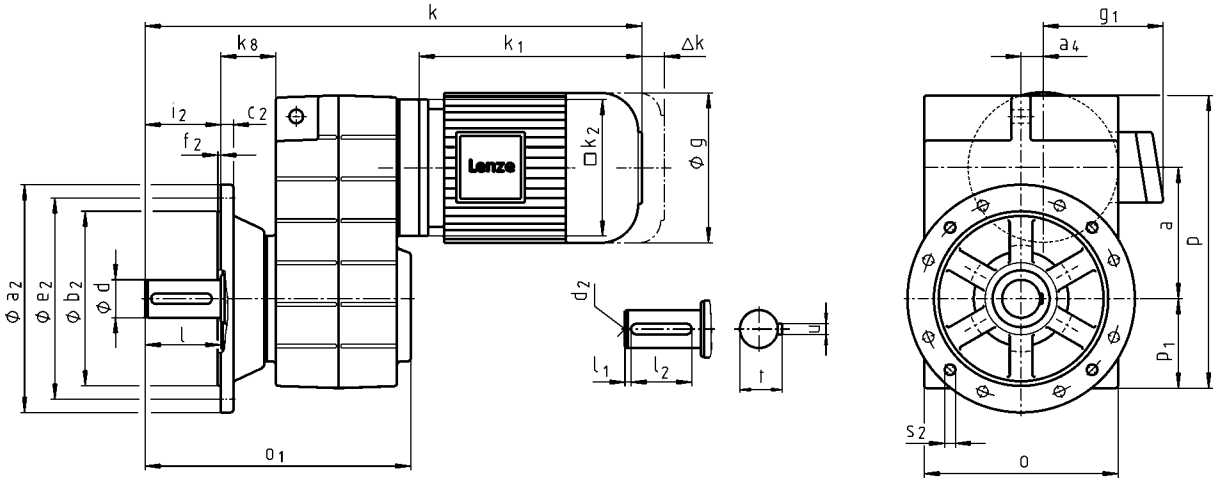
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GFL04		362	382	404	464				
GFL05		393	413	436	495	545			
GFL06		426	446	469	528	578	623		
GFL07				522	581	631	676	724	
GFL09					635	685	730	778	
GFL11						766	811	859	
GFL14							896	944	

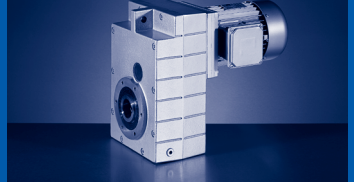
	a	a_4	a_7	a_8	c_6	k_6	k_7	$o^{1)}$	$p^{1)}$	p_1	s_6
GFL04	90.5	12.5	22.5	128	14	32	35	148	214	69	12.5
GFL05	112.5	18.5	29	155	16	35	38	165	252	78	14
GFL06	140	22	35	195	20	46	46	206	315	98	14
GFL07	173	29	44	240	25	56	56	256	386	118	18
GFL09	220	37.5	50	300	32	70	70	318	486	149	22
GFL11	276.5	50	65	375	40	84	90	395	600	181	26
GFL14	339	65	80	455	50	100	114	490	740	228	32

	d	d	d_1	d_2	l	l_1	l_2	u	t	o_1	a_1	b_1	e_1	f_1	s_1
	k6	m6										H7			
GFL04	25		45	M10	50	6	40	8	28	162.5	110	75	90	3	M6x12
GFL05	30		45	M10	60	6	45	8	33	196.5	118	80	100	4	M8x14
GFL06	40		65	M16	80	7	63	12	43	235.5	140	100	120	4	M10x16
GFL07	50		75	M16	100	8	80	14	53.5	295.5	165	115	140	5	M12x18
GFL09		60	95	M20	120	8	100	18	64	355.5	205	145	175	6	M16x24
GFL11		80	105	M20	160	15	125	22	85	444.5	240	140	205	6	M20x32
GFL14		100	135	M24	200	18	160	28	106	543.5	290	170	250	6	M24x35

1) k_2 !

GFL□□-2M VCK


k
k8
k1
Δk
i2
c2
f2
Lenze
□k2
Φ g
Φ a2
Φ e2
Φ b2
Φ d
l
o1
d2
l1
l2
t
u
g1
a4
a
p
p1
s2
o



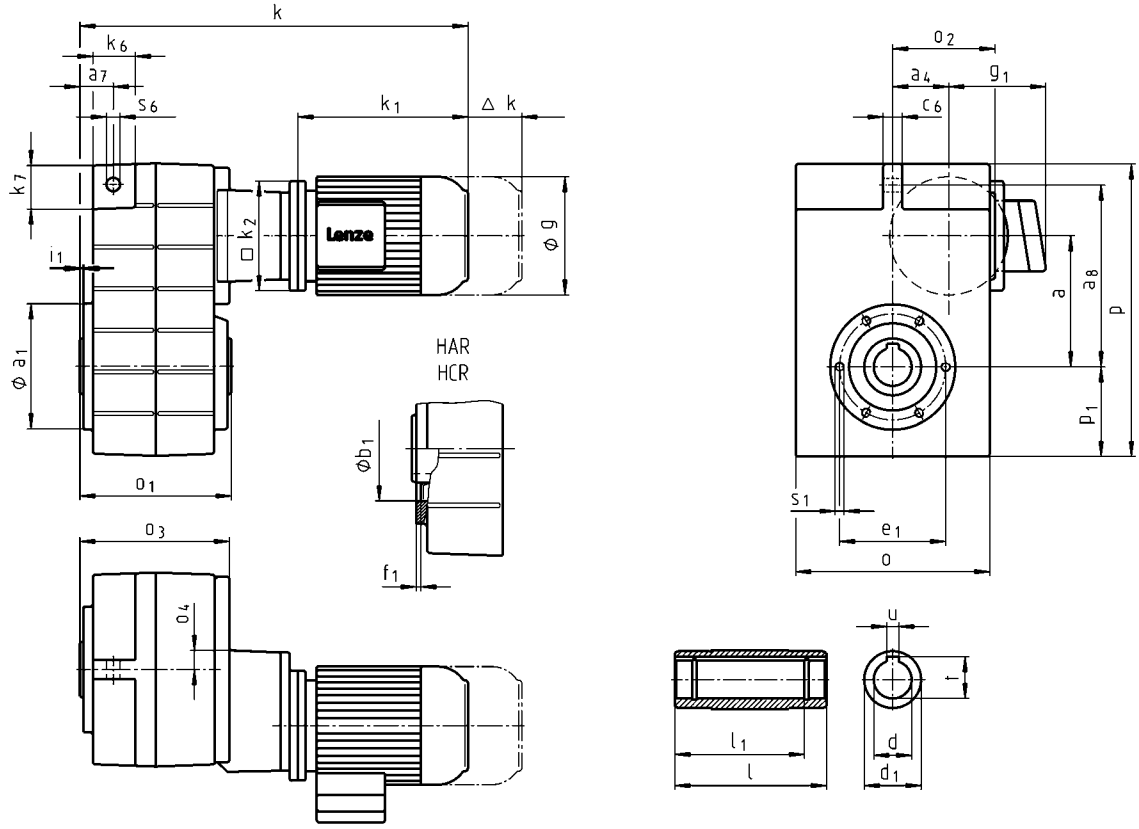
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GFL04		395	415	437	497				
GFL05		426	446	469	528	578			
GFL06		467	487	510	569	619	664		
GFL07				577	636	686	731	779	
GFL09					695	745	790	838	
GFL11						826	871	919	
GFL14							956	1004	

	a	a_4	k_8	$o^{1)}$	$p^{1)}$	p_1
GFL04	90.5	12.5	41.8	148	214	69
GFL05	112.5	18.5	46	165	252	78
GFL06	140	22	55.5	206	315	98
GFL07	173	29	72.5	256	386	118
GFL09	220	37.5	77.5	318	486	149
GFL11	276.5	50	85.5	395	600	181
GFL14	339	65	89.5	490	740	228

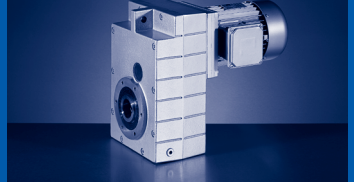
	d	d	d_1	d_2	l	l_1	l_2	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	k6	m6											j7				
GFL04	25		45	M10	50	6	40	8	28	50	195.5	160	110	10	130	3.5	4 x 9
GFL05	30		45	M10	60	6	45	8	33	60	229.5	200	130	12	165	4	4 x 11
GFL06	40		65	M16	80	7	63	12	43	80	276.5	250	180	15	215	4	4 x 14
GFL07	50		75	M16	100	8	80	14	53.5	100	350.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GFL09		60	95	M20	120	8	100	18	64	120	415.5	350	250	18	300	4	4 x 17.5
GFL11		80	105	M20	160	15	125	22	85	160	504.5	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GFL14		100	135	M24	200	18	160	28	106	200	603.5	450	350	22	400	5	8 x 18.5

[1)] k_2 !

GFL□□-3M H□R



		063C32 063C42	071C32	071C42	080C32 080C42
g		123	139		156
g_1	MFEMAXX	100	109		141
	MFEMABR	107	118		132
k_1	MFEMAXX	187	207		224.5
k_2		120			145
Δ k	MFEMABR	40	52		73
	MFFMAXX	128			
	MFFMABR	170	165		183
		k			
GFL05		410	430		
GFL06		440	460		482
GFL07		484	504		526
GFL09		536	556		578
GFL11					638



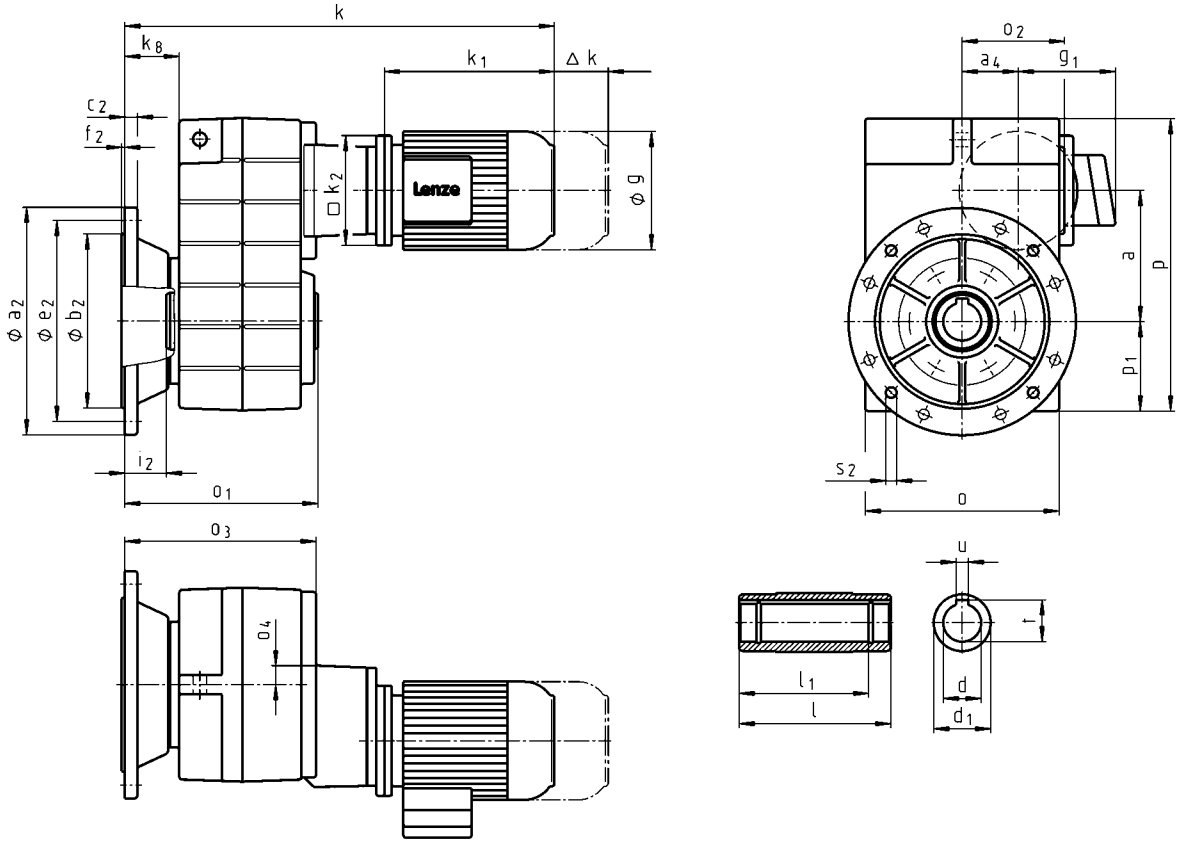
		090C32	100C12 100C32	112C22	132C12	132C22 132C32
g		176	194	218	258	
g_1	MFEMAXX	146	157	167	195	
	MFEMABR	137	147	158	187	
k_1	MFEMAXX	274	324	363	403	
k_2		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GFL07		586				
GFL09		638	688			
GFL11		698	748	793	841	
GFL14		777	827	872	920	

	a	a_4	a_7	a_8	c_6	k_6	k_7	$o^{1)}$	o_2	o_3	o_4	$p^{1)}$	p_1	s_6
GFL05	112.5	54.5	29	155	16	35	38	165	106.5	140.5	22.6	252	78	14
GFL06	140	58	35	195	20	46	46	206	111	159.5	20.2	315	98	14
GFL07	173	74	44	240	25	56	56	256	135	199	24	386	118	18
GFL09	220	93.5	50	300	32	70	70	318	170	237.5	27	486	149	22
GFL11	276.5	120	65	375	40	84	90	395	216	284.5	33.5	600	181	26
GFL14	339	154	80	455	50	100	114	490	271	339.5	38	740	228	32

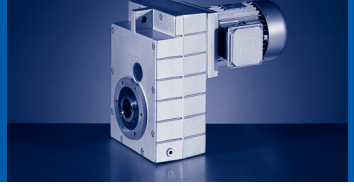
	d	d_1	l	l_1	u	t	i_1	o_1	a_1	b_1	e_1	f_1	s_1
	H7				JS9	+0,2				H7			
GFL05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	4 4	140 140	118	80	100	4	M8x14
GFL06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	5 5	160 160	140	100	120	4	M10x16
GFL07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	5 5	200 200	165	115	140	5	M12x18
GFL09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	5 5	240 240	205	145	175	6	M16x24
GFL11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	6 6	290 290	240	140	205	6	M20x32
GFL14	100	135	350	305	28	106.4	7	350	290	170	250	6	M24x35

[1)] k_2 !

GFL□□-3M HCK



		063C32 063C42	071C32	071C42	080C32 080C42
g		123	139		156
g_1	MFEMAXX	100	109		141
	MFEMABR	107	118		132
k_1	MFEMAXX	187	207		224.5
k_2		120			145
Δ k	MFEMABR	40	52		73
	MFFMAXX	128			
	MFFMABR	170	165		183
		k			
GFL05		443	463		
GFL06		481	501		523
GFL07		539	559		581
GFL09		596	616		638
GFL11					698



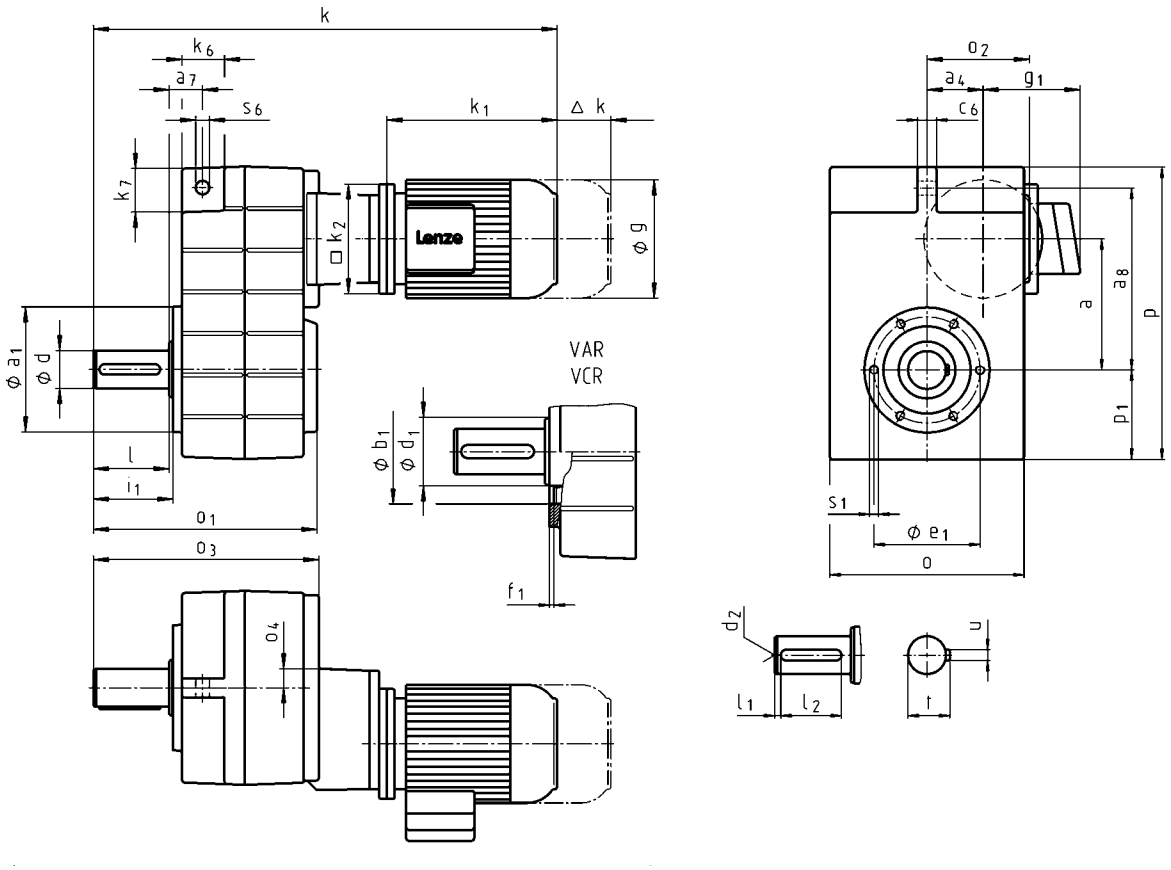
		090C32	100C12 100C32	112C22	132C12	132C22 132C32
g		176	194	218	258	
g_1	MFEMAXX	146	157	167	195	
	MFEMABR	137	147	158	187	
k_1	MFEMAXX	274	324	363	403	
k_2		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GFL07		641				
GFL09		698	748			
GFL11		758	808	853	901	
GFL14		837	887	932	980	

	a	a_4	k_8	o[1)]	o_2	o_3	o_4	p[1)]	p_1
GFL05	112.5	54.5	46	165	106.5	173.5	22.6	252	78
GFL06	140	58	55.5	206	111	200.5	20.2	315	98
GFL07	173	74	72.5	256	135	254	24	386	118
GFL09	220	93.5	77.5	318	170	297.5	27	486	149
GFL11	276.5	120	85.5	395	216	344.5	33.5	600	181
GFL14	339	154	89.5	490	271	399.5	38	740	228

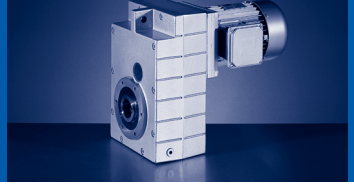
	d	d_1	l	l_1	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	H7				JS9	+0,2				j7				
GFL05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	33 33	173 173	200	130	12	165	4	4 x 11
GFL06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	42 41	201 201	250	180	15	215	4	4 x 14
GFL07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	55 55	255 255	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GFL09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	60 60	300 300	350	250	18	300	4	4 x 17.5
GFL11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	60 60	350 350	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GFL14	100	135	350	305	28	106.4	60	410	450	350	22	400	5	8 x 18.5

[1)] k_2 !

GFL□□-3M V□R



		063C32 063C42	071C32	071C42	080C32 080C42
g		123	139		156
g_1	MFEMAXX	100	109		141
	MFEMABR	107	118		132
k_1	MFEMAXX	187	207		224.5
k_2		120			145
Δ k	MFEMABR	40	52		73
	MFFMAXX	128			
	MFFMABR	170	165		183
		k			
GFL05		470	490		
GFL06		520	540		562
GFL07		584	604		626
GFL09		656	676		698
GFL11					798



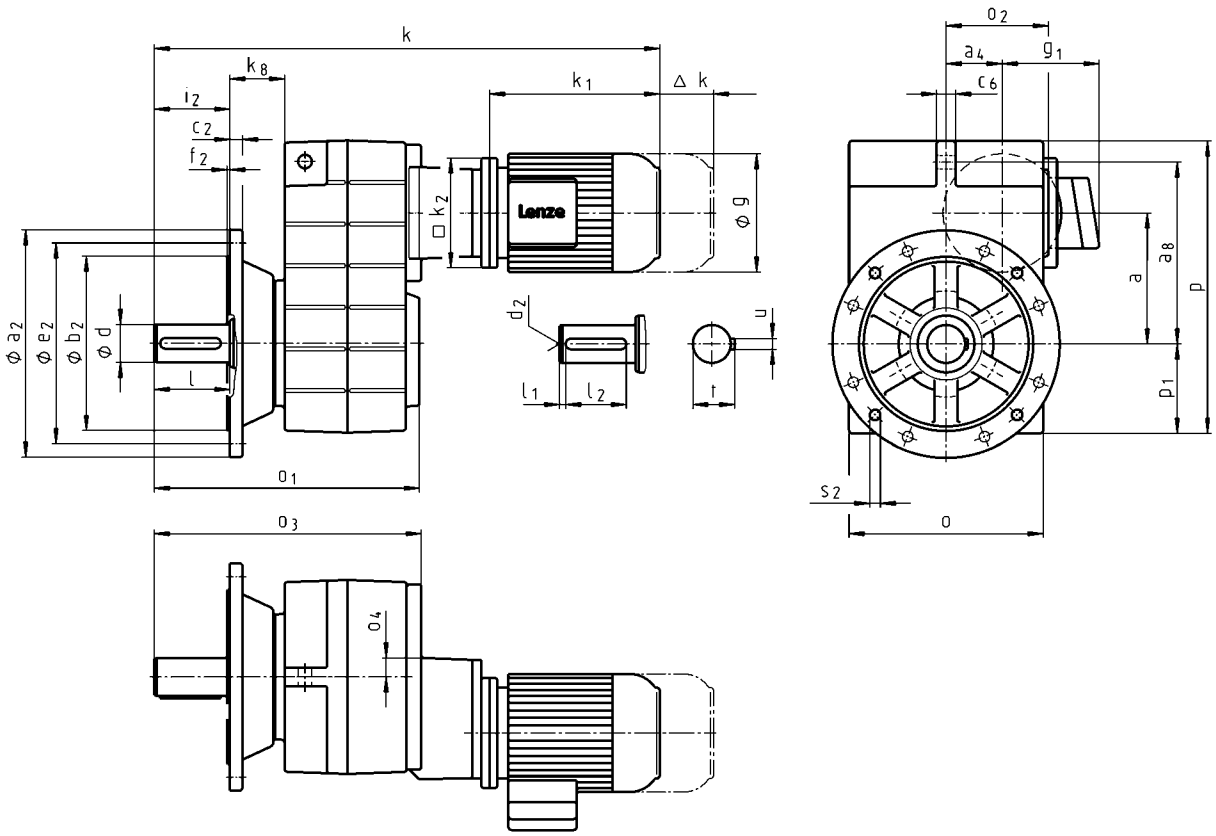
		090C32	100C12 100C32	112C22	132C12	132C22 132C32
g		176	194	218	258	
g_1	MFEMAXX	146	157	167	195	
	MFEMABR	137	147	158	187	
k_1	MFEMAXX	274	324	363	403	
k_2		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GFL07		686				
GFL09		758	808			
GFL11		858	908	953	1001	
GFL14		977	1027	1072	1120	

	a	a_4	a_7	a_8	c_6	k_6	k_7	$o^{1)}$	o_2	o_3	o_4	$p^{1)}$	p_1	s_6
GFL05	112.5	54.5	29	155	16	35	38	165	106.5	200.5	22.6	252	78	14
GFL06	140	58	35	195	20	46	46	206	111	239.5	20.2	315	98	14
GFL07	173	74	44	240	25	56	56	256	135	299	24	386	118	18
GFL09	220	93.5	50	300	32	70	70	318	170	357.5	27	486	149	22
GFL11	276.5	120	65	375	40	84	90	395	216	444.5	33.5	600	181	26
GFL14	339	154	80	455	50	100	114	490	271	539.5	38	740	228	32

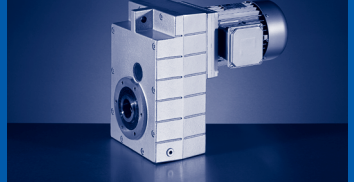
	d	d	d_1	d_2	l	l_1	l_2	u	t	o_1	a_1	b_1	e_1	f_1	s_1
	k6	m6										H7			
GFL05	30		45	M10	60	6	45	8	33	196.5	118	80	100	4	M8x14
GFL06	40		65	M16	80	7	63	12	43	235.5	140	100	120	4	M10x16
GFL07	50		75	M16	100	8	80	14	53.5	295.5	165	115	140	5	M12x18
GFL09		60	95	M20	120	8	100	18	64	355.5	205	145	175	6	M16x24
GFL11		80	105	M20	160	15	125	22	85	444.5	240	140	205	6	M20x32
GFL14		100	135	M24	200	18	160	28	106	543.5	290	170	250	6	M24x35

[1)] k_2 !

GFL□□-3M VCK



		063C32 063C42	071C32	071C42	080C32 080C42
g		123	139		156
g_1	MFEMAXX	100	109		141
	MFEMABR	107	118		132
k_1	MFEMAXX	187	207		224.5
k_2		120			145
Δ k	MFEMABR	40	52		73
	MFFMAXX	128			
	MFFMABR	170	165		183
		k			
GFL05		503	523		
GFL06		561	581		603
GFL07		639	659		681
GFL09		716	736		758
GFL11					858



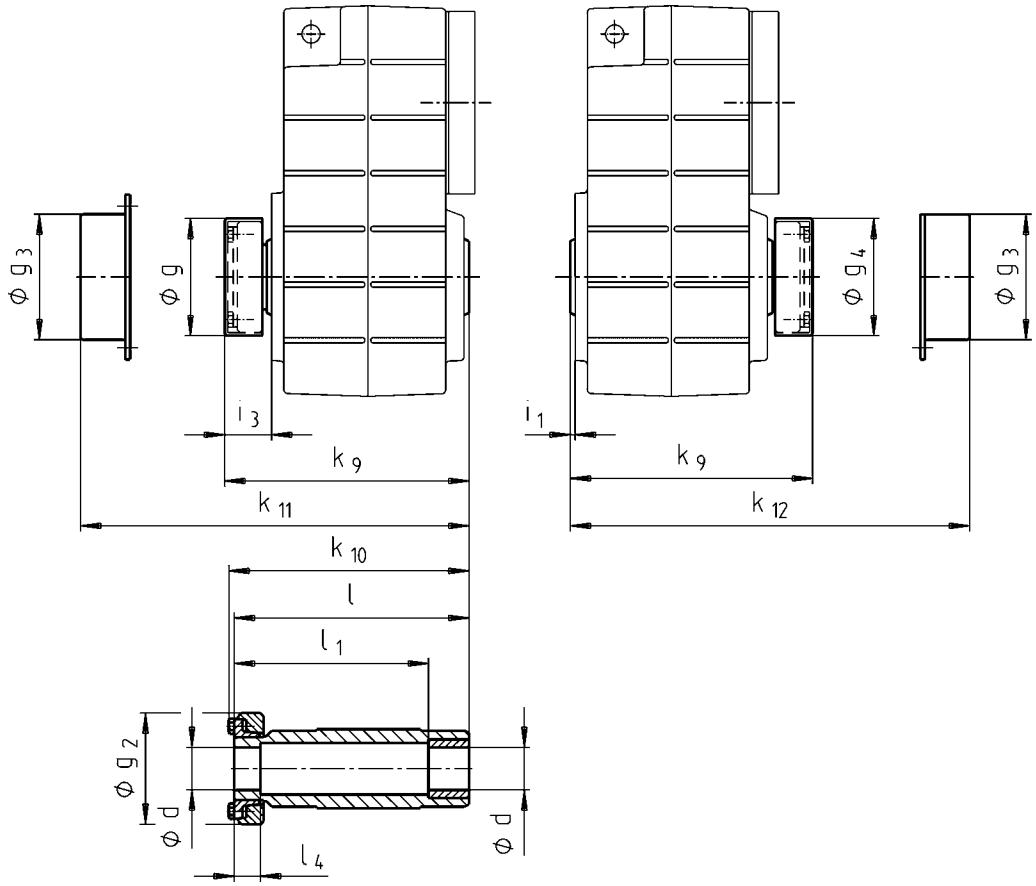
		090C32	100C12 100C32	112C22	132C12	132C22 132C32
g		176	194	218	258	
g_1	MFEMAXX	146	157	167	195	
	MFEMABR	137	147	158	187	
k_1	MFEMAXX	274	324	363	403	
k_2		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GFL07		741				
GFL09		818	868			
GFL11		918	968	1013	1061	
GFL14		1037	1087	1132	1180	

	a	a_4	k_8	o[1)]	o_2	o_3	o_4	p[1)]	p_1
GFL05	112.5	54.5	46	165	106.5	233.5	22.6	252	78
GFL06	140	58	55.5	206	111	280.5	20.2	315	98
GFL07	173	74	72.5	256	135	354	24	386	118
GFL09	220	93.5	77.5	318	170	417.5	27	486	149
GFL11	276.5	120	85.5	395	216	504.5	33.5	600	181
GFL14	339	154	89.5	490	271	599.5	38	740	228

	d	d	d_1	d_2	l	l_1	l_2	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	k6	m6											j7				
GFL05	30		45	M10	60	6	45	8	33	60	229.5	200	130	12	165	4	4 x 11
GFL06	40		65	M16	80	7	63	12	43	80	276.5	250	180	15	215	4	4 x 14
GFL07	50		75	M16	100	8	80	14	53.5	100	350.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GFL09		60	95	M20	120	8	100	18	64	120	415.5	350	250	18	300	4	4 x 17.5
GFL11		80	105	M20	160	15	125	22	85	160	504.5	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GFL14		100	135	M24	200	18	160	28	106	200	603.5	450	350	22	400	5	8 x 18.5

[1)] k_2 !

Hollow shaft with shrink disc

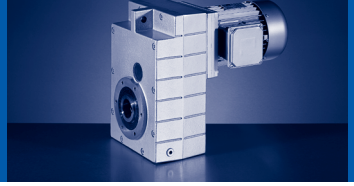


	d [1]	g_2	g_3	g_4	i_1	k_9	k_{10}	k_{11}	k_{12}	l	l_1	l_4
	h6											
GFL04	25 30	72	79	76	2.5	150	148	154	154	142	122	26
GFL04	25 30	72	79	76	2.5	150	148	154	154	142	122	26
GFL05	35	80	90	84	4.0	176	174	179	180	168	148	28
GFL06	40	90	100	94	5.0	202	200	204	205	194	164	30
GFL07	50	110	124	116	5.0	241	238	244	245	232	192	26
GFL09	65	141	159	147	5.0	288	285	287	288	278	228	30
GFL11	80	170	191	176	6.0	347	344	349	350	338	238	42
GFL14	100	215	253	221	7.0	418	415	421	422	407	307	55

[1] Machine shaft design.

- Output flange and hollow shaft with shrink disc (design S□K) is only possible with shrink disc in position 1.

- Not suitable for through machine shaft at motor end:
  GFL04-2M S□□ 080C□□; d=30
  GFL05-2M S□□ 100C□□; d=35
  GFL07-2M S□□ 160C□□; d=50/55
  GFL11-2M S□□ 225C□□; d=80



- Ensure that the strength of the machine shaft material is adequate in shrink disc designs.
  When using typical steels (e.g. C45, 42CrMo4), the torques listed in the selection tables can be used without restriction. Please consult us if you wish to use material that is considerably weaker. Medium surface roughness Rz must not exceed 15 µm (machining is sufficient).

Combination options with shrink disc in position 1 (drive end)

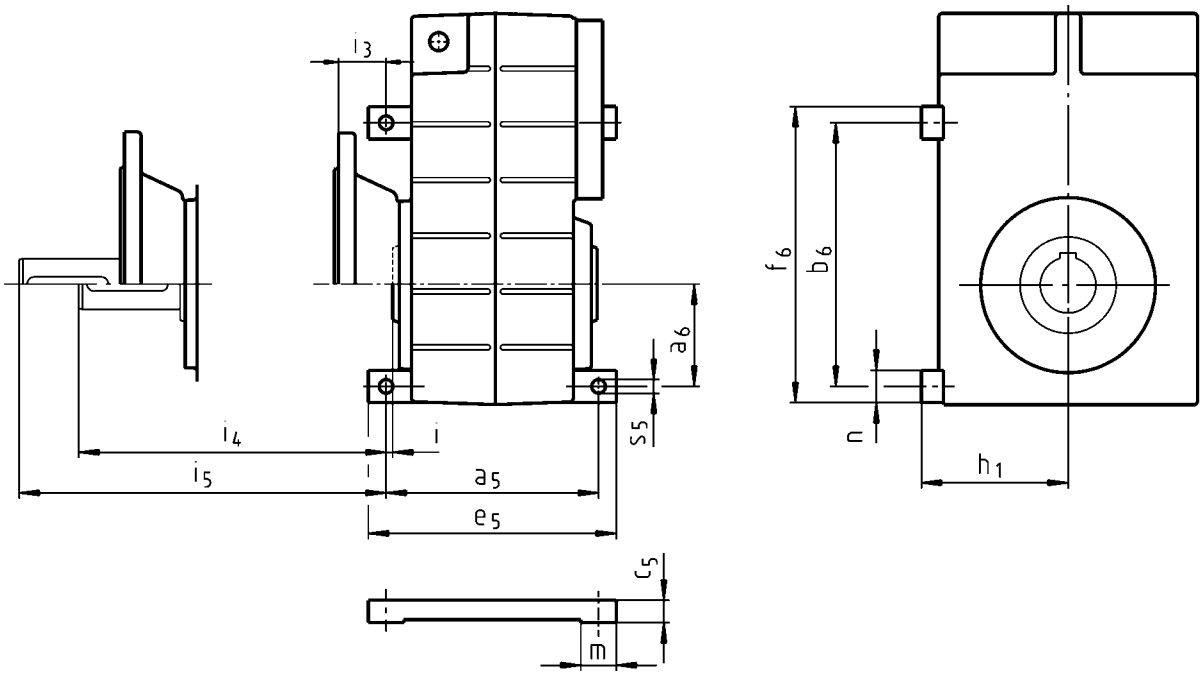
GFL□□-2M

Gearbox	Motor frame size
GFL04	
GFL05	063 [1)] 071 [1)]
GFL06	063 071 080 090 [1)] 100 [1)]
GFL07	080 090 100 112 [1)]
GFL09	090 100 112 132
GFL11	100 112 132 160 180 225
GFL14	112 132 160 180 225

[1)] Only possible without cover

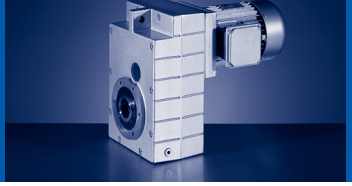
- For geared motors GFL□□-2M/E S... with shrink disc position 1: terminal box position / motec position 4 not possible!

Foot mounting in position 3

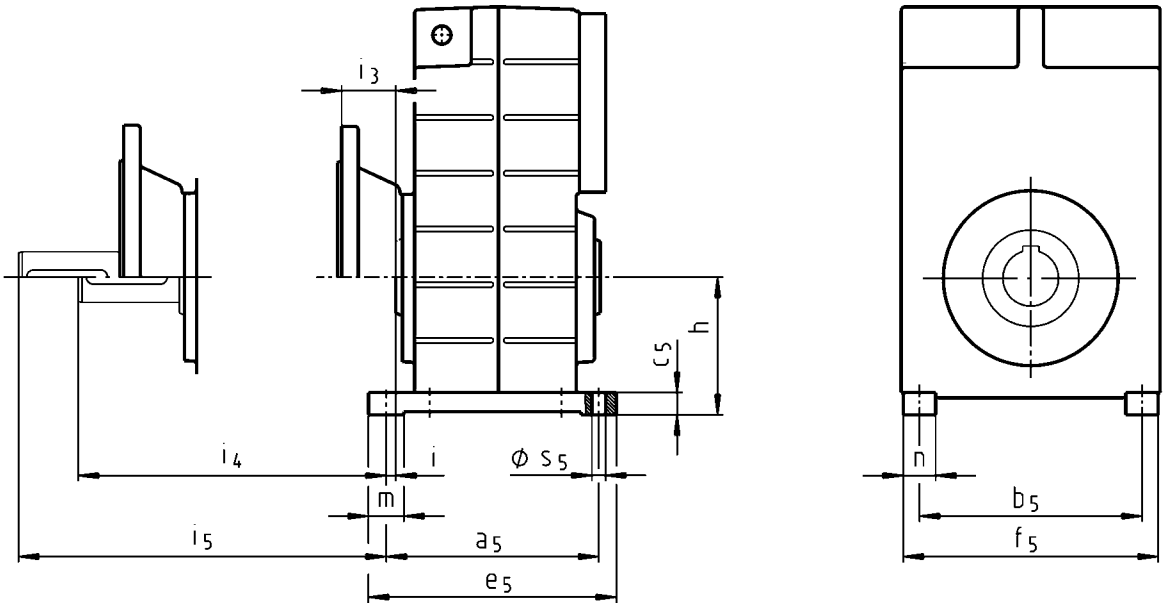


	a_5	a_6	b_6	c_5	e_5	f_6	h_1	i	i_3	i_4	i_5	m	n	s_5
GFL04	130	47	115	18	152	140	90	4.5	28.5	45.5	78.5	22	25	6.6
GFL05	160	65	167	21	185	192	100	2.0	31.0	58.0	91.0	25		9.0
GFL06	175	80	205	27	205	233	125		39.0	78.0	119	30	28	11.0
GFL07	220	100	260	31	255	292	155	3.0	52.0	97.0	152	35	32	13.5
GFL09	260	125	335	36	300	375	190		57.0	117	177	40	40	17.5
GFL11	315	155	435	48	365	485	240			157	217	50	50	22.0
GFL14	375	200	540	57	430	600	295			197	257	55	60	26.0

The following versions are not possible with feet:
- GFL04: Motor size 090
- GFL05: Motor size 090



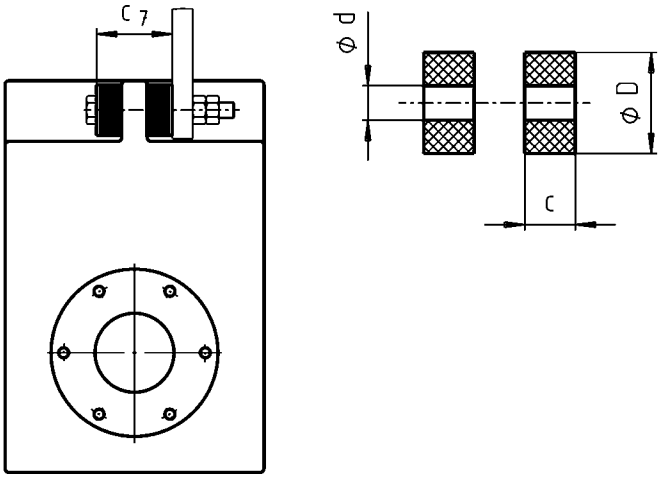
Foot mounting in position 4



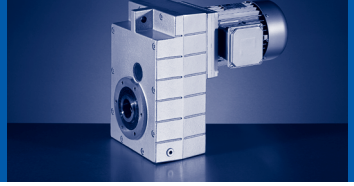
	a_5	b_5	c_5	e_5	f_5	h	i	i_3	i_4	i_5	m	n	s_5
GFL04	130	108	18	152	133.0	85	4.5	28.5	45.5	78.5	22	25	6.6
GFL05	160	140	21	185	165.0	95	2.0	31.0	58.0	91.0	25		9.0
GFL06	175	175	27	205	203.0	120		39.0	78.0	119	30	28	11.0
GFL07	220	220	31	255	252.0	145	3.0	52.0	97.0	152	35	32	13.5
GFL09	260	275	36	300	315.0	180		57.0	117	177	40	40	17.5
GFL11	315	340	48	365	390.0	224			157	217	50	50	22.0
GFL14	375	425	57	430	485.0	278			197	257	55	60	26.0

► In mounting positions E and F, the oil check bore hole/oil-sight glass are located between the feet in position 4!

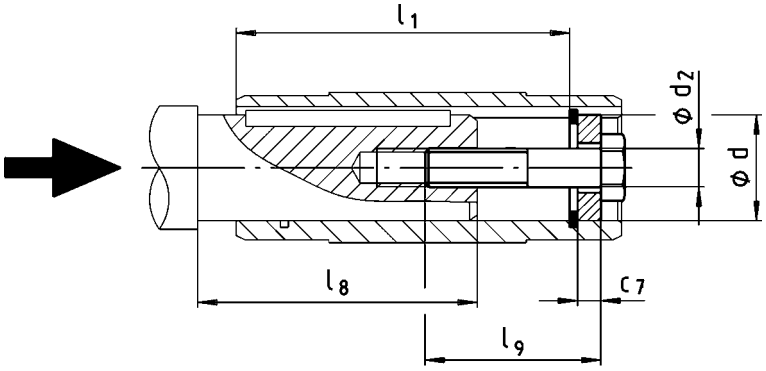
Rubber buffer for torque plate

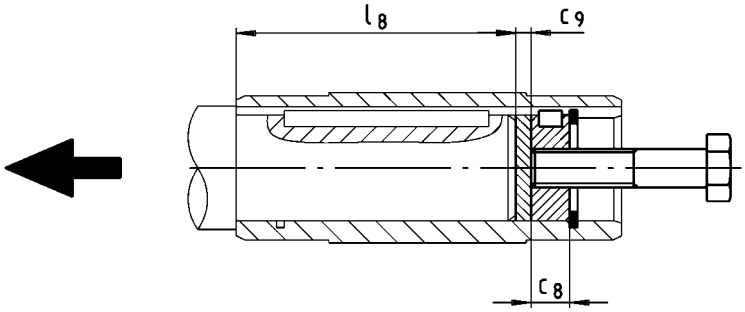


	d	D	c	c_7
GFL04	11	30	14.5	43
GFL05	11	30	14.5	45
GFL06	13	40	15.0	50
GFL07	17	50	27.0	79
GFL09	21	60	28.0	88
GFL11	26	72	29.0	98
GFL14	33	92	30.0	110

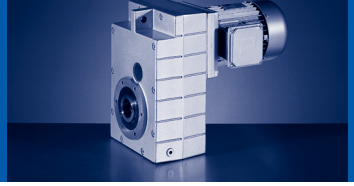


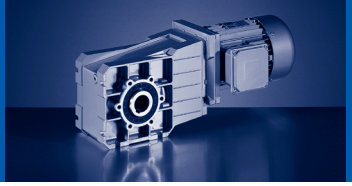
Mounting set for hollow shaft circlip - Proposed design for auxiliary tools





	d	l_1	d_2	l_9	c_7	c_8	c_9	$l_{8,max}$
	H7							
GFL04	25 30	100	M10	40	5	10	3	85
					6			
GFL05	30 35	124						107
			M12	50	7	12		
GFL06	40 45	140	M16	60	8	16	4	118
					9			
GFL07	50 55	175			10		5	148
			M20	80	11	20		
GFL09	60 70	210			13			182
					14			
GFL11	70 80	250					6	221
					16			
GFL14	100	305	M24	100	20	24	8	270



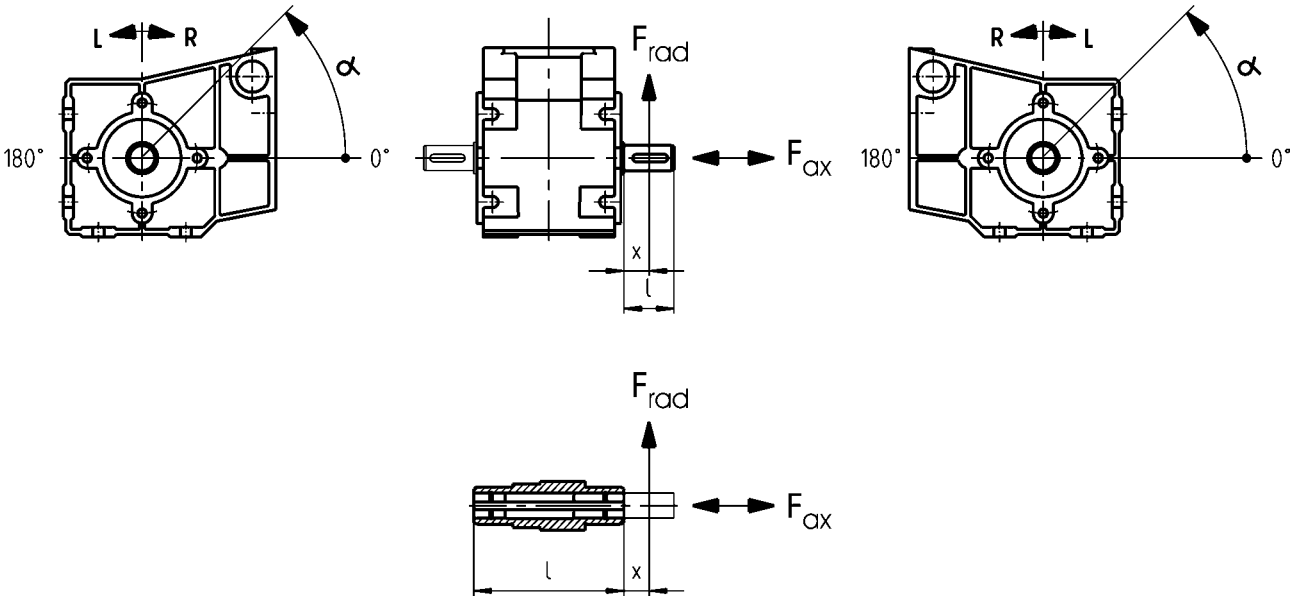


Permissible radial and axial forces at output

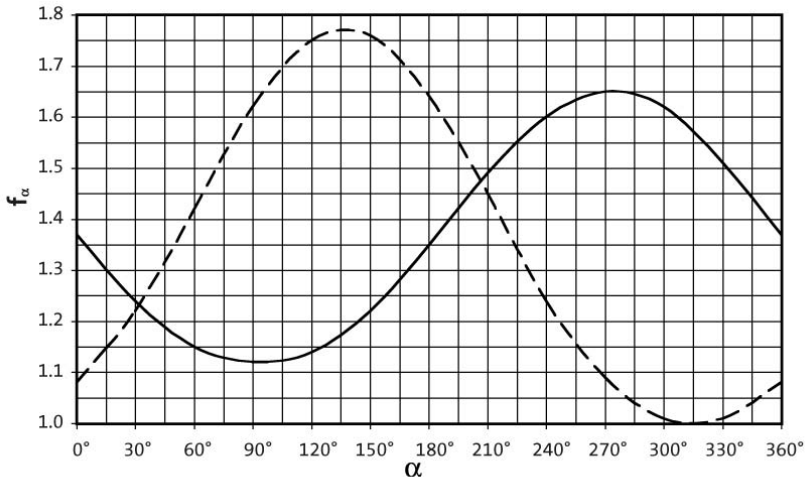
Permissible radial force
$F_{rad,per} = \min(f_w \times f_\alpha \times F_{rad,max}\ ;\ f_w \times F_{rad,max}$ at $n_2 \leq 16$ r/min)

Permissible axial force
$F_{ax,per} = F_{ax,max}$ if $F_{rad} = 0$

If F_{rad} **and** $F_{ax} \neq 0$; please contact Lenze.

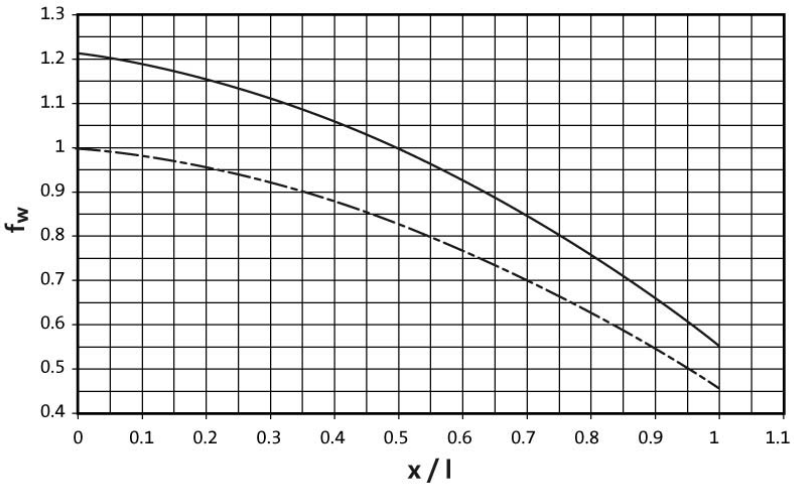


Effective direction factor f_α at output shaft



——— Direction of rotation L
— — — Direction of rotation R

Additional load factor f_w at output shaft

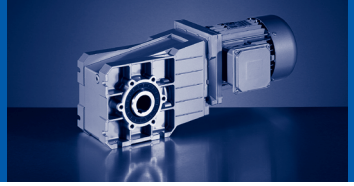


——— Solid shaft (V□□) — · — Hollow shaft (H□□)

GKR□□-2□ H□□

Size	n_2 [r/min]									
Gearbox	**1000**	**630**	**400**	**250**	**160**	**100**	**63**	**40**	**25**	**≤16**
	Max. radial force, Hollow shaft									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKR03	900	1200	2200	2500	2800	3000	3000	3000	3000	3000
GKR04	1000	2200	2550	3000	3300	3600	3600	3600	3600	3600
GKR05	1500	2250	3800	4500	5100	6200	7400	7800	7800	7800
GKR06	3000	3800	5000	5200	5500	7000	9000	10000	10000	10000
	Max. axial force, Hollow shaft									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKR03	600	800	1000	1100	1250	1400	1400	1400	1400	1400
GKR04	700	1000	1275	1500	1650	1800	1800	1800	1800	1800
GKR05	1100	1500	1900	2200	2500	3100	3700	3900	3900	3900
GKR06	1500	2000	2500	2600	2750	3500	4500	5000	5000	5000

- Application of force F_{rad}: at hollow shaft end face (x = 0)
- $F_{ax,max}$ only valid with F_{rad} = 0
- Neither radial nor axial forces are permissible for the hollow shaft with shrink disc (S□□).



GKR□□-2□ V□R

Size	n_2 [r/min]									
Gearbox	1000	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft without flange									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKR03	900	1200	1800	2100	2400	2800	3000	3000	3000	3000
GKR04	1000	1800	2100	2500	2700	3000	3000	3000	3000	3000
GKR05	1500	2350	3000	3600	4500	5000	6000	6500	6500	6500
GKR06	2000	2800	4000	4200	4500	5600	7300	8600	9000	9000
	Max. axial force, Solid shaft without flange									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKR03	600	800	1000	1100	1250	1400	1400	1400	1400	1400
GKR04	700	1000	1275	1500	1650	1800	1800	1800	1800	1800
GKR05	1100	1520	1900	2200	2500	3100	3700	3900	3900	3900
GKR06	1500	2000	2500	2600	2750	3500	4500	5000	5000	5000

GKR□□-2□ V□K

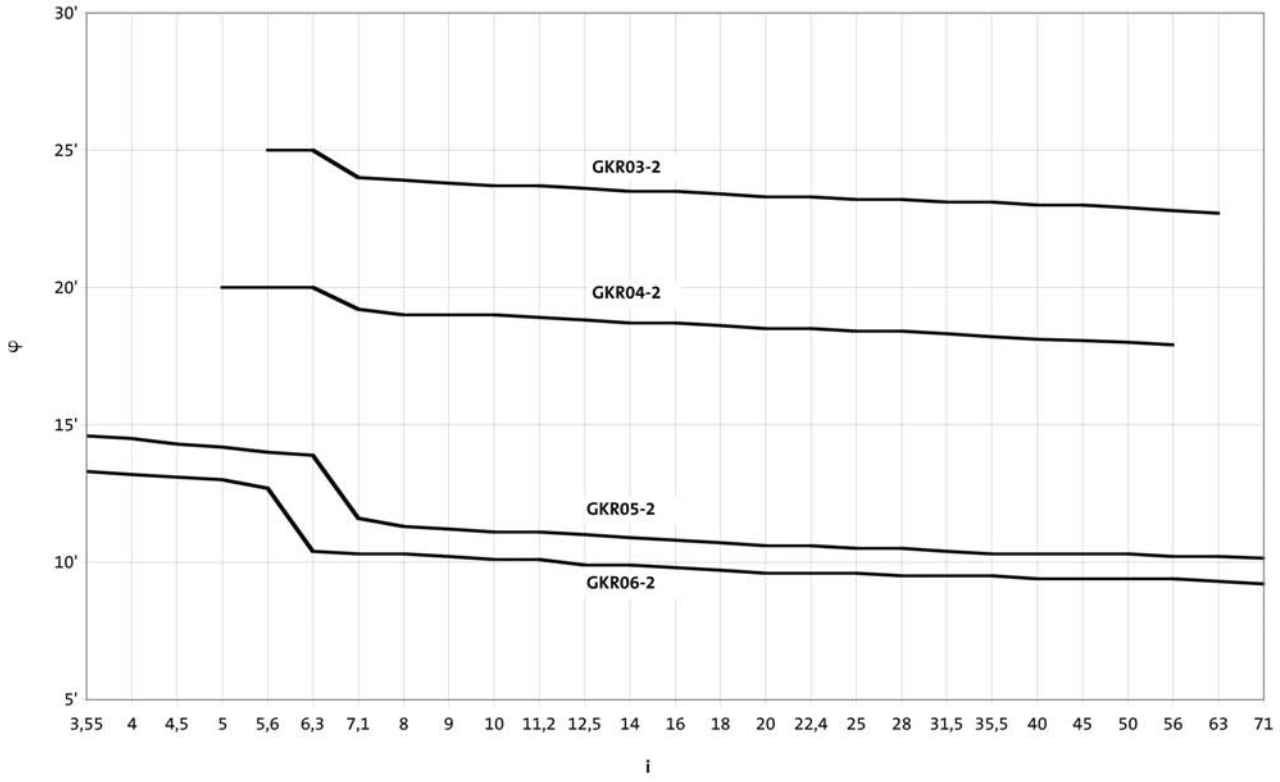
Size	n_2 [r/min]									
Gearbox	1000	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft with flange									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKR03	900	1200	1800	2100	2400	2800	3000	3000	3000	3000
GKR04	1000	1800	2100	2500	2700	3000	3000	3000	3000	3000
GKR05	2400	3600	5200	6000	6500	6500	6500	6500	6500	6500
GKR06	3000	4000	5500	6200	7000	9000	9000	9000	9000	9000
	Max. axial force, Solid shaft with flange									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKR03	600	800	1000	1100	1250	1400	1400	1400	1400	1400
GKR04	700	1000	1275	1500	1650	1800	1800	1800	1800	1800
GKR05	1100	1500	1900	2200	2500	3100	3700	3900	3900	3900
GKR06	1500	2000	2500	2600	2750	3500	4500	5000	5000	5000

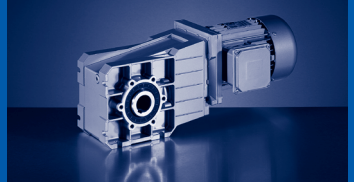
- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0

Output backlash in angular minutes

► Backlash φ depending on ratio i

GKR03...06-2





GKR□□-2

- Moment of inertia (J) depending on ratio i

Gearbox			GKR03
5.411	J	[kgcm²]	0.307
6.222	J	[kgcm²]	0.276
7.111	J	[kgcm²]	0.196
8.178	J	[kgcm²]	0.178
9.101	J	[kgcm²]	0.134
10.466	J	[kgcm²]	0.123
11.640	J	[kgcm²]	0.086
13.386	J	[kgcm²]	0.079
15.111	J	[kgcm²]	0.059
17.378	J	[kgcm²]	0.055
19.365	J	[kgcm²]	0.038
22.270	J	[kgcm²]	0.054
25.051	J	[kgcm²]	0.025
28.808	J	[kgcm²]	0.023
32.593	J	[kgcm²]	0.016
37.481	J	[kgcm²]	0.015
42.222	J	[kgcm²]	0.010
48.556	J	[kgcm²]	0.009
53.889	J	[kgcm²]	0.006
61.972	J	[kgcm²]	0.006

Gearbox			GKR04
5.185	J	[kgcm²]	0.813
5.963	J	[kgcm²]	0.723
7.111	J	[kgcm²]	0.446
8.178	J	[kgcm²]	0.410
9.101	J	[kgcm²]	3.270
10.466	J	[kgcm²]	0.300
11.449	J	[kgcm²]	0.260
12.698	J	[kgcm²]	1.990
14.603	J	[kgcm²]	0.181
15.556	J	[kgcm²]	1.470
17.889	J	[kgcm²]	0.135
19.556	J	[kgcm²]	0.096
22.489	J	[kgcm²]	0.090
25.185	J	[kgcm²]	0.065
28.963	J	[kgcm²]	0.060
31.919	J	[kgcm²]	0.042
36.707	J	[kgcm²]	0.040
40.000	J	[kgcm²]	0.029
46.000	J	[kgcm²]	0.027
52.698	J	[kgcm²]	0.017
60.603	J	[kgcm²]	0.017

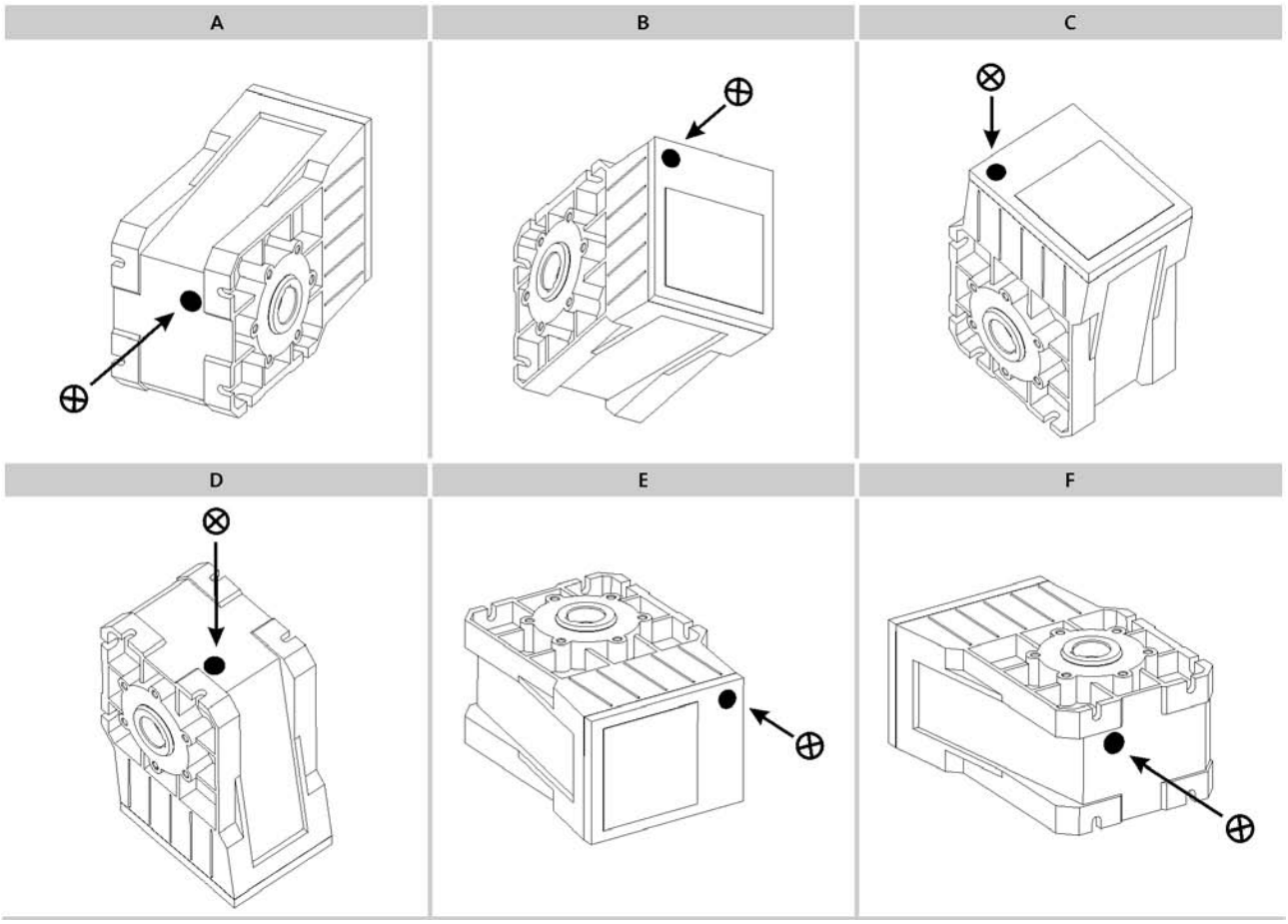
Gearbox			GKR05
3.565	J	[kgcm²]	4.950
4.889	J	[kgcm²]	2.793
6.257	J	[kgcm²]	1.791
6.883	J	[kgcm²]	2.572
7.817	J	[kgcm²]	2.316
9.440	J	[kgcm²]	1.531
10.720	J	[kgcm²]	1.396
12.081	J	[kgcm²]	1.021
13.216	J	[kgcm²]	0.874
13.719	J	[kgcm²]	0.938
15.008	J	[kgcm²]	0.805
16.857	J	[kgcm²]	0.597
19.143	J	[kgcm²]	0.554
20.650	J	[kgcm²]	0.439
23.450	J	[kgcm²]	0.411
26.878	J	[kgcm²]	0.270
30.522	J	[kgcm²]	0.253
33.433	J	[kgcm²]	0.191
37.967	J	[kgcm²]	0.180
43.267	J	[kgcm²]	0.118
49.133	J	[kgcm²]	0.112
52.510	J	[kgcm²]	0.085
59.630	J	[kgcm²]	0.081
67.113	J	[kgcm²]	0.054
76.213	J	[kgcm²]	0.051

Gearbox			GKR06
3.431	J	[kgcm²]	9.576
4.706	J	[kgcm²]	5.607
6.022	J	[kgcm²]	3.658
6.481	J	[kgcm²]	5.112
7.146	J	[kgcm²]	4.539
8.889	J	[kgcm²]	3.233
9.800	J	[kgcm²]	2.929
11.376	J	[kgcm²]	2.209
12.444	J	[kgcm²]	1.890
13.720	J	[kgcm²]	1.734
15.873	J	[kgcm²]	1.321
17.500	J	[kgcm²]	1.225
19.444	J	[kgcm²]	0.991
21.438	J	[kgcm²]	0.928
25.309	J	[kgcm²]	0.632
27.903	J	[kgcm²]	0.594
31.481	J	[kgcm²]	0.457
34.708	J	[kgcm²]	0.432
40.741	J	[kgcm²]	0.284
44.917	J	[kgcm²]	0.270
49.444	J	[kgcm²]	0.207
54.513	J	[kgcm²]	0.197
62.500	J	[kgcm²]	0.134
68.906	J	[kgcm²]	0.127

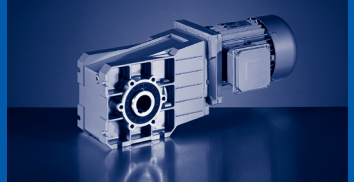
- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

Ventilation position

GKR06



⊗ Ventilation



GKR□□-2M HAR / HBR

			063C32 063C42	071C32 071C42	080C32
GKR03	m	[kg]	7		
GKR04	m	[kg]	9	11	16
GKR05	m	[kg]	14	16	21
GKR06	m	[kg]	22	24	29

			080C42	090C32	100C12 100C32	112C22
GKR05	m	[kg]	21	28	37	
GKR06	m	[kg]	29	37	45	58

GKR□□-2M HAK

			063C32 063C42	071C32 071C42	080C32
GKR03	m	[kg]	7		
GKR04	m	[kg]	10	12	17
GKR05	m	[kg]	15	17	22
GKR06	m	[kg]	23	25	30

			080C42	090C32	100C12 100C32	112C22
GKR05	m	[kg]	22	29	38	
GKR06	m	[kg]	30	38	46	59

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GKR□□-2M VAR / VBR

			063C32 063C42	071C32 071C42	080C32
GKR03	m	[kg]	7		
GKR04	m	[kg]	10	12	17
GKR05	m	[kg]	15	17	22
GKR06	m	[kg]	24	26	30

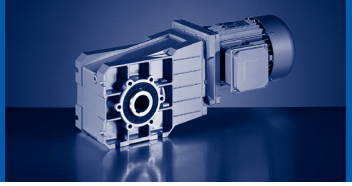
			080C42	090C32	100C12 100C32	112C22
GKR05	m	[kg]	22	29	38	
GKR06	m	[kg]	30	39	47	60

GKR□□-2M VAK

			063C32 063C42	071C32 071C42	080C32
GKR03	m	[kg]	8		
GKR04	m	[kg]	10	12	17
GKR05	m	[kg]	16	18	23
GKR06	m	[kg]	25	27	31

			080C42	090C32	100C12 100C32	112C22
GKR05	m	[kg]	23	30	39	
GKR06	m	[kg]	31	40	48	61

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GKR□□-2M SAR / SBR

			063C32 063C42	071C32 071C42	080C32
GKR03	m	[kg]	7		
GKR04	m	[kg]	10	12	17
GKR05	m	[kg]	14	17	21
GKR06	m	[kg]	23	25	30

			080C42	090C32	100C12 100C32	112C22
GKR05	m	[kg]	21	29	38	
GKR06	m	[kg]	30	38	46	59

GKR□□-2M SAK

			063C32 063C42	071C32 071C42	080C32
GKR03	m	[kg]	8		
GKR04	m	[kg]	10	12	17
GKR05	m	[kg]	15	18	22
GKR06	m	[kg]	24	26	31

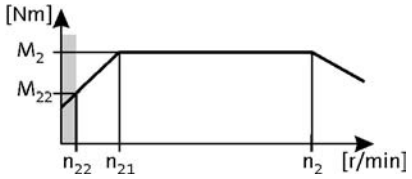
			080C42	090C32	100C12 100C32	112C22
GKR05	m	[kg]	22	30	39	
GKR06	m	[kg]	31	39	47	60

- Weights with oil filling for mounting position A; all values are approximate.
  The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

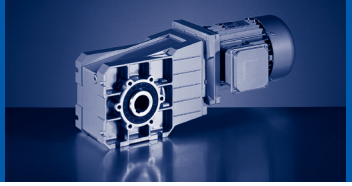
120 Hz: P_N = 0.55 kW

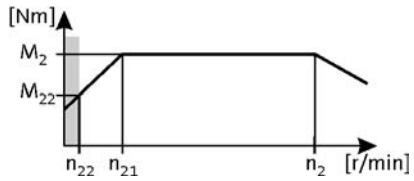
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.3 ... 3440 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	66	-	378	10.0	13	2.6	9.101	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
16	66	-	378	10.0	13	4.5	9.101	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
14	57	-	329	12	15	2.2	10.466	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
14	57	-	329	12	15	4.4	10.466	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
13	52	-	301	13	17	4.1	11.449	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
12	52	-	296	13	17	2.0	11.640	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
11	47	-	271	14	18	3.7	12.698	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
11	45	-	260	15	19	3.9	13.216	GKR05-2M□□□063C32	E84AV□□□5514□□0	230
11	45	-	257	15	19	1.8	13.386	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
9.8	41	-	236	16	21	3.2	14.603	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
9.6	40	-	229	17	22	3.9	15.008	GKR05-2M□□□063C32	E84AV□□□5514□□0	230
9.5	40	-	228	17	22	1.6	15.111	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
9.2	39	-	221	17	23	3.0	15.556	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
8.3	35	-	198	19	25	1.4	17.378	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
8.0	34	-	192	20	26	2.6	17.889	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
7.4	31	-	178	21	28	1.2	19.365	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
7.3	31	-	176	22	28	2.4	19.556	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
6.4	27	-	155	24	32	1.1	22.270	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
6.4	27	-	153	25	33	2.1	22.489	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
5.7	24	-	137	28	36	1.1	25.051	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
5.7	24	-	137	28	37	2.1	25.185	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
5.0	21	-	119	32	42	0.9	28.808	GKR03-2M□□□063C32	E84AV□□□5514□□0	230
5.0	21	-	119	32	42	1.8	28.963	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
4.7	20	-	113	34	44	4.2	30.522	GKR05-2M□□□063C32	E84AV□□□5514□□0	230
4.5	19	-	108	35	46	1.7	31.919	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
3.9	16	-	94	40	53	1.5	36.707	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
3.6	15	-	86	44	58	1.2	40.000	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
3.1	13	-	75	51	67	1.3	46.000	GKR04-2M□□□063C32	E84AV□□□5514□□0	230
2.9	12	-	70	54	71	3.2	49.133	GKR05-2M□□□063C32	E84AV□□□5514□□0	230
2.7	11	-	66	58	76	3.0	52.510	GKR05-2M□□□063C32	E84AV□□□5514□□0	230
2.6	11	-	63	60	79	3.5	54.513	GKR06-2M□□□063C32	E84AV□□□5514□□0	230
2.4	10	-	58	66	87	2.7	59.630	GKR05-2M□□□063C32	E84AV□□□5514□□0	230
2.3	9.6	-	55	69	91	2.8	62.500	GKR06-2M□□□063C32	E84AV□□□5514□□0	230
2.1	8.9	-	51	74	97	1.5	67.113	GKR05-2M□□□063C32	E84AV□□□5514□□0	230
2.1	8.7	-	50	76	100	2.8	68.906	GKR06-2M□□□063C32	E84AV□□□5514□□0	230
1.9	7.9	-	45	84	111	1.5	76.213	GKR05-2M□□□063C32	E84AV□□□5514□□0	230





120 Hz: P_N = 0.75 kW

n_{22} / n_2 = 1 ... 24.0

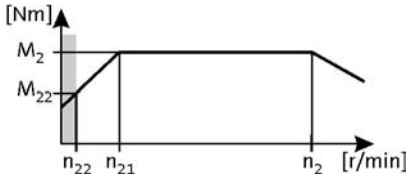
n_1 = 141.7 ... 3400 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	66	-	374	14	18	1.9	9.101	GKR03-2M□□□063C42	E84AV□□□7514□□0	230
16	66	-	374	14	18	3.3	9.101	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
14	57	-	325	16	21	1.6	10.466	GKR03-2M□□□063C42	E84AV□□□7514□□0	230
14	57	-	325	16	21	3.2	10.466	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
12	52	-	297	17	23	3.0	11.449	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
12	52	-	292	17	23	1.5	11.640	GKR03-2M□□□063C42	E84AV□□□7514□□0	230
11	47	-	268	19	25	2.7	12.698	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
11	45	-	257	20	26	2.9	13.216	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
11	45	-	254	20	27	1.3	13.386	GKR03-2M□□□063C42	E84AV□□□7514□□0	230
9.7	41	-	233	22	29	2.3	14.603	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
9.4	40	-	227	23	30	2.9	15.008	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
9.4	40	-	225	23	30	1.1	15.111	GKR03-2M□□□063C42	E84AV□□□7514□□0	230
9.1	39	-	219	23	31	2.2	15.556	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
8.2	35	-	196	26	35	1.0	17.378	GKR03-2M□□□063C42	E84AV□□□7514□□0	230
7.9	34	-	190	27	36	1.9	17.889	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
7.2	31	-	174	29	39	1.8	19.556	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
6.3	27	-	151	34	45	1.5	22.489	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
5.6	24	-	135	38	50	1.5	25.185	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
5.3	22	-	127	40	54	3.1	26.878	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
4.9	21	-	117	43	58	1.3	28.963	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
4.6	20	-	111	46	61	3.1	30.522	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
4.4	19	-	107	48	64	1.2	31.919	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
4.2	18	-	102	50	67	2.6	33.433	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
3.9	16	-	93	55	74	1.1	36.707	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
3.7	16	-	90	57	76	2.6	37.967	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
3.5	15	-	84	61	82	2.9	40.741	GKR06-2M□□□063C42	E84AV□□□7514□□0	230
3.3	14	-	79	65	87	2.6	43.267	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
3.2	13	-	76	67	90	2.9	44.917	GKR06-2M□□□063C42	E84AV□□□7514□□0	230
3.1	13	-	74	69	92	0.9	46.000	GKR04-2M□□□063C42	E84AV□□□7514□□0	230
2.9	12	-	69	74	98	2.3	49.133	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
2.9	12	-	69	74	99	2.5	49.444	GKR06-2M□□□063C42	E84AV□□□7514□□0	230
2.7	11	-	65	79	105	2.2	52.510	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
2.6	11	-	62	82	109	2.5	54.513	GKR06-2M□□□063C42	E84AV□□□7514□□0	230
2.4	10	-	57	89	119	1.9	59.630	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
2.3	9.6	-	54	94	125	2.0	62.500	GKR06-2M□□□063C42	E84AV□□□7514□□0	230
2.1	8.9	-	51	101	134	1.1	67.113	GKR05-2M□□□063C42	E84AV□□□7514□□0	230
2.1	8.7	-	49	103	138	2.0	68.906	GKR06-2M□□□063C42	E84AV□□□7514□□0	230
1.9	7.9	-	45	114	153	1.1	76.213	GKR05-2M□□□063C42	E84AV□□□7514□□0	230

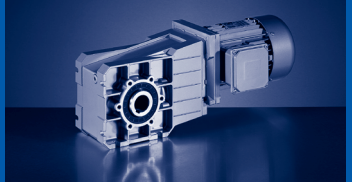
120 Hz: P_N = 1.10 kW

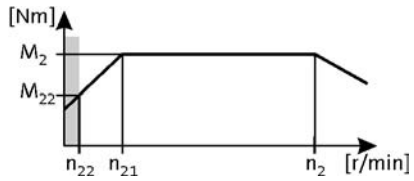
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.4 ... 3490 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	96	-	558	14	18	4.2	6.257	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
16	66	-	384	20	26	2.4	9.101	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
14	57	-	334	23	30	2.2	10.466	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
13	52	-	305	25	33	2.1	11.449	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
12	47	-	275	28	36	1.9	12.698	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
11	45	-	264	29	38	4.2	13.216	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
10	41	-	239	32	42	1.6	14.603	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
9.7	40	-	233	33	43	3.9	15.008	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
9.4	39	-	224	34	45	1.5	15.556	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
8.1	34	-	195	39	51	1.3	17.889	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
7.4	31	-	179	43	56	1.2	19.556	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
7.0	29	-	169	45	59	3.1	20.650	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
6.5	27	-	155	49	64	1.1	22.489	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
6.2	26	-	149	52	67	2.7	23.450	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
5.8	24	-	139	55	72	1.1	25.185	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
5.4	22	-	130	59	77	2.7	26.878	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
5.0	21	-	121	64	83	0.9	28.963	GKR04-2M□□□071C32	E84AV□□□1124□□0	230
4.8	20	-	114	67	87	2.4	30.522	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
4.6	19	-	111	69	90	3.4	31.481	GKR06-2M□□□071C32	E84AV□□□1124□□0	230
4.4	18	-	104	73	96	2.2	33.433	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
3.8	16	-	92	83	109	1.9	37.967	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
3.4	14	-	81	95	124	1.8	43.267	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
3.0	12	-	71	108	141	1.6	49.133	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
2.9	12	-	71	109	141	2.8	49.444	GKR06-2M□□□071C32	E84AV□□□1124□□0	230
2.8	11	-	67	115	150	1.5	52.510	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
2.7	11	-	64	120	156	2.7	54.513	GKR06-2M□□□071C32	E84AV□□□1124□□0	230
2.4	10	-	59	131	171	1.3	59.630	GKR05-2M□□□071C32	E84AV□□□1124□□0	230
2.3	9.6	-	56	137	179	1.6	62.500	GKR06-2M□□□071C32	E84AV□□□1124□□0	230
2.1	8.7	-	51	151	197	1.6	68.906	GKR06-2M□□□071C32	E84AV□□□1124□□0	230





120 Hz: P_N = 1.50 kW

n_{22} / n_2 = 1 ... 24.0

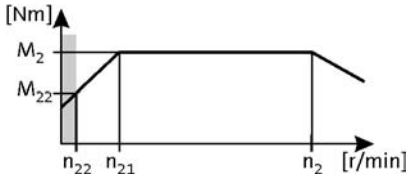
n_1 = 143.8 ... 3450 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	96	-	551	19	25	3.1	6.257	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
16	66	-	379	27	36	1.8	9.101	GKR04-2M□□□071C42	E84AV□□□1524□□0	230
14	57	-	330	31	41	1.6	10.466	GKR04-2M□□□071C42	E84AV□□□1524□□0	230
13	52	-	301	34	45	1.5	11.449	GKR04-2M□□□071C42	E84AV□□□1524□□0	230
12	50	-	286	36	48	3.1	12.081	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
11	47	-	272	38	50	1.4	12.698	GKR04-2M□□□071C42	E84AV□□□1524□□0	230
11	45	-	261	40	52	3.1	13.216	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
11	44	-	252	41	54	3.0	13.719	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
9.8	41	-	236	44	58	1.2	14.603	GKR04-2M□□□071C42	E84AV□□□1524□□0	230
9.6	40	-	230	45	59	2.9	15.008	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
9.2	39	-	222	47	61	1.1	15.556	GKR04-2M□□□071C42	E84AV□□□1524□□0	230
9.1	38	-	217	48	63	3.1	15.873	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
8.5	36	-	205	51	67	2.7	16.857	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
8.2	34	-	197	52	69	3.1	17.500	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
8.0	34	-	193	54	71	1.0	17.889	GKR04-2M□□□071C42	E84AV□□□1524□□0	230
7.5	31	-	180	57	76	2.4	19.143	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
7.0	29	-	167	62	82	2.2	20.650	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
6.1	26	-	147	70	93	2.0	23.450	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
5.7	24	-	136	76	100	2.9	25.309	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
5.4	22	-	128	81	106	1.9	26.878	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
5.2	22	-	124	84	110	2.9	27.903	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
4.7	20	-	113	91	120	1.7	30.522	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
4.6	19	-	110	94	124	2.4	31.481	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
4.3	18	-	103	100	132	1.6	33.433	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
4.1	17	-	99	104	137	2.4	34.708	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
3.8	16	-	91	114	150	1.4	37.967	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
3.5	15	-	85	122	161	2.5	40.741	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
3.3	14	-	80	130	171	1.3	43.267	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
3.2	13	-	77	135	177	2.4	44.917	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
2.9	12	-	70	147	194	1.2	49.133	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
2.9	12	-	70	148	195	2.0	49.444	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
2.7	11	-	66	157	207	1.1	52.510	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
2.6	11	-	63	163	215	2.0	54.513	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
2.4	10	-	58	179	235	1.0	59.630	GKR05-2M□□□071C42	E84AV□□□1524□□0	230
2.3	9.6	-	55	187	247	1.2	62.500	GKR06-2M□□□071C42	E84AV□□□1524□□0	230
2.1	8.7	-	50	206	272	1.2	68.906	GKR06-2M□□□071C42	E84AV□□□1524□□0	230

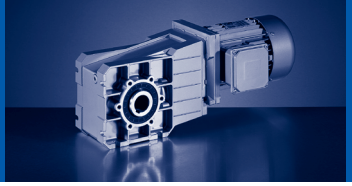
120 Hz: P_N = 2.20 kW

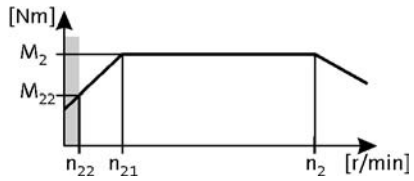
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.8 ... 3500 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
23	96	-	559	27	36	3.3	6.257	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
16	66	-	385	39	52	1.2	9.101	GKR04-2M□□□080C32	E84AV□□□2224□□0	230
14	57	-	334	45	60	1.1	10.466	GKR04-2M□□□080C32	E84AV□□□2224□□0	230
13	52	-	306	49	65	1.0	11.449	GKR04-2M□□□080C32	E84AV□□□2224□□0	230
12	50	-	290	52	69	2.3	12.081	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
12	47	-	276	54	72	0.9	12.698	GKR04-2M□□□080C32	E84AV□□□2224□□0	230
11	45	-	265	57	75	2.1	13.216	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
11	44	-	255	59	78	2.1	13.719	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
9.7	40	-	233	64	86	2.0	15.008	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
8.7	36	-	208	72	96	1.9	16.857	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
7.6	31	-	183	82	109	1.7	19.143	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
7.5	31	-	180	83	111	3.1	19.444	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
7.1	29	-	170	88	118	1.5	20.650	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
6.8	28	-	163	92	122	2.8	21.438	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
6.2	26	-	149	100	134	1.4	23.450	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
5.8	24	-	138	108	144	2.7	25.309	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
5.4	22	-	130	115	153	1.3	26.878	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
5.2	22	-	125	119	159	2.4	27.903	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
4.8	20	-	115	131	174	1.2	30.522	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
4.6	19	-	111	135	180	2.1	31.481	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
4.4	18	-	105	143	191	1.1	33.433	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
4.2	17	-	101	148	198	1.9	34.708	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
3.8	16	-	92	162	217	0.9	37.967	GKR05-2M□□□080C32	E84AV□□□2224□□0	230
3.6	15	-	86	174	232	1.8	40.741	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
3.3	13	-	78	192	256	1.7	44.917	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
3.0	12	-	71	211	282	1.5	49.444	GKR06-2M□□□080C32	E84AV□□□2224□□0	230
2.7	11	-	64	233	311	1.4	54.513	GKR06-2M□□□080C32	E84AV□□□2224□□0	230





120 Hz: P_N = 3.00 kW

n_{22} / n_2 = 1 ... 24.0

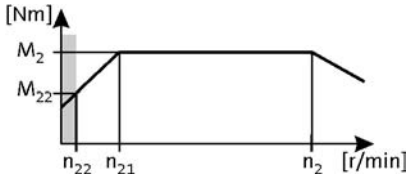
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
24	149	-	578	35	47	3.1	6.022	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
23	144	-	556	37	49	2.4	6.257	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
13	79	-	306	67	89	3.1	11.376	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
12	75	-	288	71	95	1.7	12.081	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
12	72	-	280	73	97	3.1	12.444	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
11	68	-	263	78	103	1.6	13.216	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
11	66	-	254	81	107	1.5	13.719	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
11	66	-	254	81	107	3.0	13.720	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
9.7	60	-	232	88	117	1.4	15.008	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
9.1	57	-	219	93	124	2.7	15.873	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
8.6	53	-	206	99	132	1.4	16.857	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
8.3	51	-	199	103	137	2.5	17.500	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
7.6	47	-	182	112	150	1.2	19.143	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
7.5	46	-	179	114	152	2.2	19.444	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
7.0	44	-	169	121	162	1.1	20.650	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
6.8	42	-	162	126	168	2.0	21.438	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
6.2	38	-	148	138	183	1.0	23.450	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
5.7	36	-	138	149	198	2.0	25.309	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
5.4	34	-	130	158	210	1.0	26.878	GKR05-2M□□□080C42	E84AV□□□3024□□S	230
5.2	32	-	125	164	218	1.8	27.903	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
4.6	29	-	111	185	246	1.6	31.481	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
4.2	26	-	100	204	272	1.4	34.708	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
3.6	22	-	85	239	319	1.3	40.741	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
3.2	20	-	78	264	351	1.2	44.917	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
2.9	18	-	70	290	387	1.1	49.444	GKR06-2M□□□080C42	E84AV□□□3024□□S	230
2.7	17	-	64	320	426	1.0	54.513	GKR06-2M□□□080C42	E84AV□□□3024□□S	230

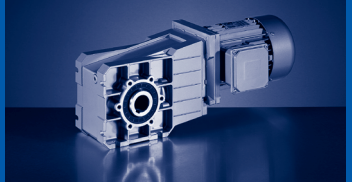
120 Hz: P_N = 4.00 kW

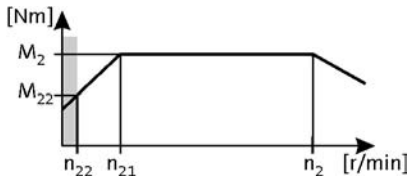
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
24	100	-	578	44	63	2.9	6.022	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
23	96	-	556	46	65	1.8	6.257	GKR05-2M□□□090C32	E84AV□□□4024□□0	230
13	53	-	306	83	119	2.8	11.376	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
12	50	-	288	88	126	1.2	12.081	GKR05-2M□□□090C32	E84AV□□□4024□□0	230
12	48	-	280	91	130	2.6	12.444	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
11	45	-	263	97	138	1.2	13.216	GKR05-2M□□□090C32	E84AV□□□4024□□0	230
11	44	-	254	100	143	1.1	13.719	GKR05-2M□□□090C32	E84AV□□□4024□□0	230
11	44	-	254	100	143	2.3	13.720	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
9.7	40	-	232	110	157	1.1	15.008	GKR05-2M□□□090C32	E84AV□□□4024□□0	230
9.1	38	-	219	116	166	2.1	15.873	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
8.6	36	-	206	123	176	1.0	16.857	GKR05-2M□□□090C32	E84AV□□□4024□□0	230
8.3	34	-	199	128	183	1.9	17.500	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
7.6	31	-	182	140	200	0.9	19.143	GKR05-2M□□□090C32	E84AV□□□4024□□0	230
7.5	31	-	179	142	203	1.7	19.444	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
6.8	28	-	162	157	224	1.5	21.438	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
5.7	24	-	138	185	264	1.5	25.309	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
5.2	22	-	125	204	291	1.3	27.903	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
4.6	19	-	111	230	328	1.2	31.481	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
4.2	17	-	100	253	362	1.1	34.708	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
3.6	15	-	85	297	425	1.0	40.741	GKR06-2M□□□090C32	E84AV□□□4024□□0	230
3.2	13	-	78	328	468	0.9	44.917	GKR06-2M□□□090C32	E84AV□□□4024□□0	230





120 Hz: P_N = 5.50 kW

n_{22} / n_2 = 1 ... 24.0

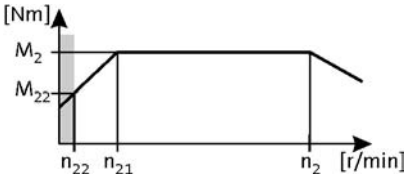
n_1 = 146.9 ... 3525 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
24	100	-	585	60	85	2.5	6.022	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
24	96	-	563	62	89	1.3	6.257	GKR05-2M□□□100C12	E84AV□□□5524□□0	230
13	53	-	310	113	161	2.0	11.376	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
12	50	-	292	120	171	0.9	12.081	GKR05-2M□□□100C12	E84AV□□□5524□□0	230
12	48	-	283	123	176	1.9	12.444	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
11	44	-	257	136	194	1.7	13.720	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
9.3	38	-	222	157	225	1.5	15.873	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
8.4	34	-	201	173	248	1.4	17.500	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
7.6	31	-	181	193	275	1.2	19.444	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
6.9	28	-	164	212	304	1.1	21.438	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
5.8	24	-	139	251	358	1.1	25.309	GKR06-2M□□□100C12	E84AV□□□5524□□0	230
5.3	22	-	126	277	395	1.0	27.903	GKR06-2M□□□100C12	E84AV□□□5524□□0	230

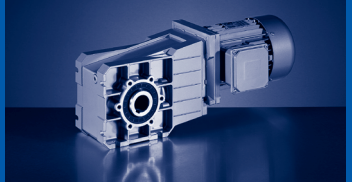
120 Hz: P_N = 7.50 kW

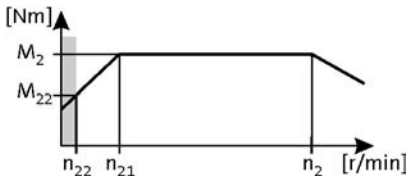
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.5 ... 3515 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
24	100	-	584	82	117	1.8	6.022	GKR06-2M□□□100C32	E84AV□□□7524□□0	230
23	96	-	562	85	121	1.0	6.257	GKR05-2M□□□100C32	E84AV□□□7524□□0	230
13	53	-	309	154	220	1.5	11.376	GKR06-2M□□□100C32	E84AV□□□7524□□0	230
12	48	-	283	169	241	1.4	12.444	GKR06-2M□□□100C32	E84AV□□□7524□□0	230
11	44	-	256	186	266	1.2	13.720	GKR06-2M□□□100C32	E84AV□□□7524□□0	230
9.2	38	-	221	215	307	1.1	15.873	GKR06-2M□□□100C32	E84AV□□□7524□□0	230
8.4	34	-	201	237	339	1.0	17.500	GKR06-2M□□□100C32	E84AV□□□7524□□0	230
7.5	31	-	181	264	376	0.9	19.444	GKR06-2M□□□100C32	E84AV□□□7524□□0	230





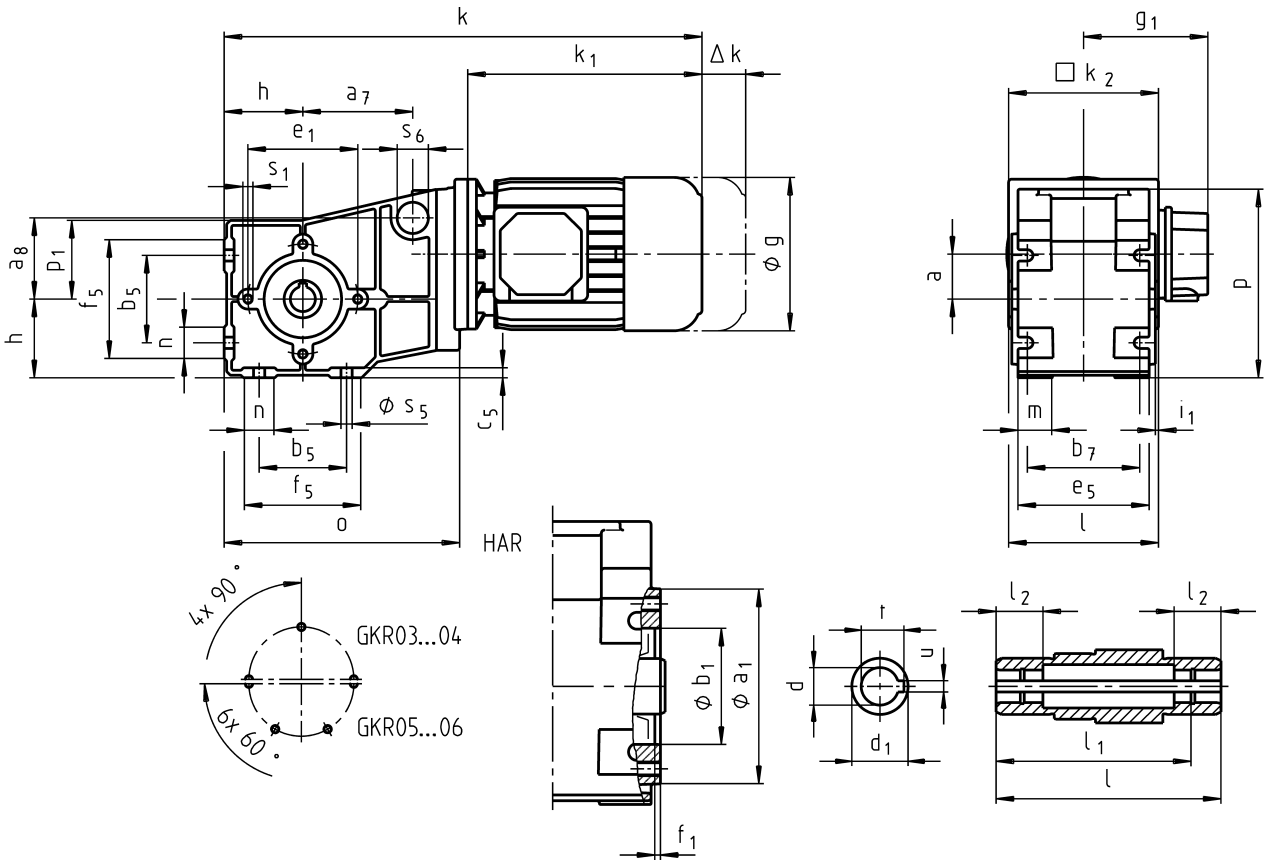
120 Hz: P_N = 11.00 kW

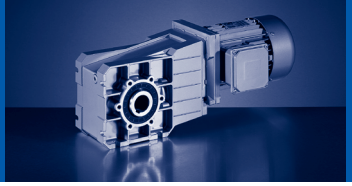
n_{22} / n_2 = 1 ... 24.0

n_1 = 147.1 ... 3530 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
24	100	-	586	109	170	1.2	6.022	GKR06-2M□□□112C22	E84AV□□□1134□□0	230
13	53	-	310	206	322	1.0	11.376	GKR06-2M□□□112C22	E84AV□□□1134□□0	230
12	48	-	284	225	352	1.0	12.444	GKR06-2M□□□112C22	E84AV□□□1134□□0	230

GKR□□-2M H□R


k
k1
Δk
h
a7
e1
s6
s1
a8
p1
f5
b5
n
h
n
ϕ s5
c5
b5
f5
o
ϕ g
HAR
4x 90°
6x 60°
GKR03...04
GKR05...06
ϕ b1
ϕ a1
f1
g1
□ k2
a
p
m
i1
b7
e5
l
t
u
d
d1
l2
l2
l1
l



		063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22
g		123	139	156		176	194	218
g_1	MFEMAXX	100	109	141		146	157	167
	MFEMABR	107	118	132		137	147	158
k_1	MFEMAXX	187	207	224.5		274	324	363
k_2		120		145		180		222
Δ k	MFEMABR	40	52	73		68	76	90
	MFFMAXX	128					109	102
	MFFMABR	170	165	183		181	170	183
		k						
GKR03		332						
GKR04		383	403	425				
GKR05		436	456	479		538	588	
GKR06		488	508	530		590	640	685

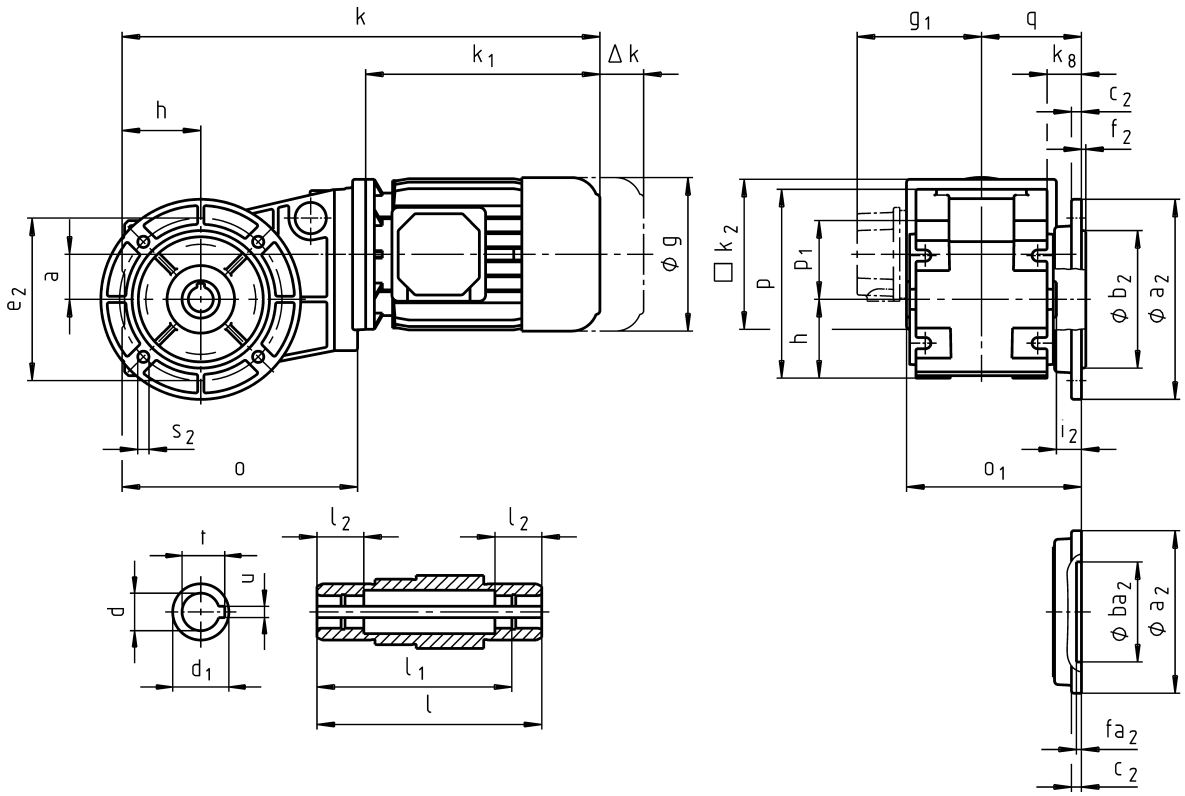
	a	a_7	a_8	h	o	$p^{1)}$	p_1	s_6
GKR03	29	66	39	50	142	117	48	25
GKR04	36	88	65	63	189	151	63	25
GKR05	40			80	250.5	181	82	
GKR06	51			100	307	226	100	

	$d^{2)}$	d_1	$l^{1)}$	l_1	l_2	u	$t^{3)}$	i_1	a_1	b_1	e_1	f_1	s_1
	H7					JS9	+0,2			J7			
GKR03	18 20	30 30	100 100	85 85	22 22	6 6	20.8 22.8	2.5 2.5	85	55	70	2.5	M6x12
GKR04	20 25	30 35	120 120	105 105	25 25	6 8	22.8 27	2.5 2.5	104	62	88	3	M8x16
GKR05	30 35	50 50	143 143	127 127	25 25	8 10	33.3 38.3	4 4	116	80	100	4	M8x15
GKR06	40 45	65 65	170 170	150 150	30 30	12 14	43.3 48.8	5 5	140	100	120	4	M10x22

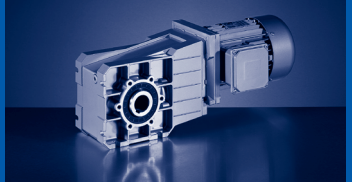
	b_5	b_7	c_5	e_5	f_5	m	n	s_5
GKR03	60	75	7	90	80	22	20	6.6
GKR04	70	90	8	105	95	28	25	9
GKR05	100	100	11	115	138	27	48	9
GKR06	120	125	12	145	164	32	53	11

1) k_2 !
2) l_2 !
3) d = 25 mm > DIN 6885/3

GKR□□-2M HAK


k
k1
Δk
h
e2
a
s2
o
ϕ g
t
u
d
d1
l2
l2
l1
l
g1
q
k8
c2
f2
□k2
p
p1
h
ϕ b2
ϕ a2
i2
o1
ϕ ba2
ϕ a2
fa2
c2

5



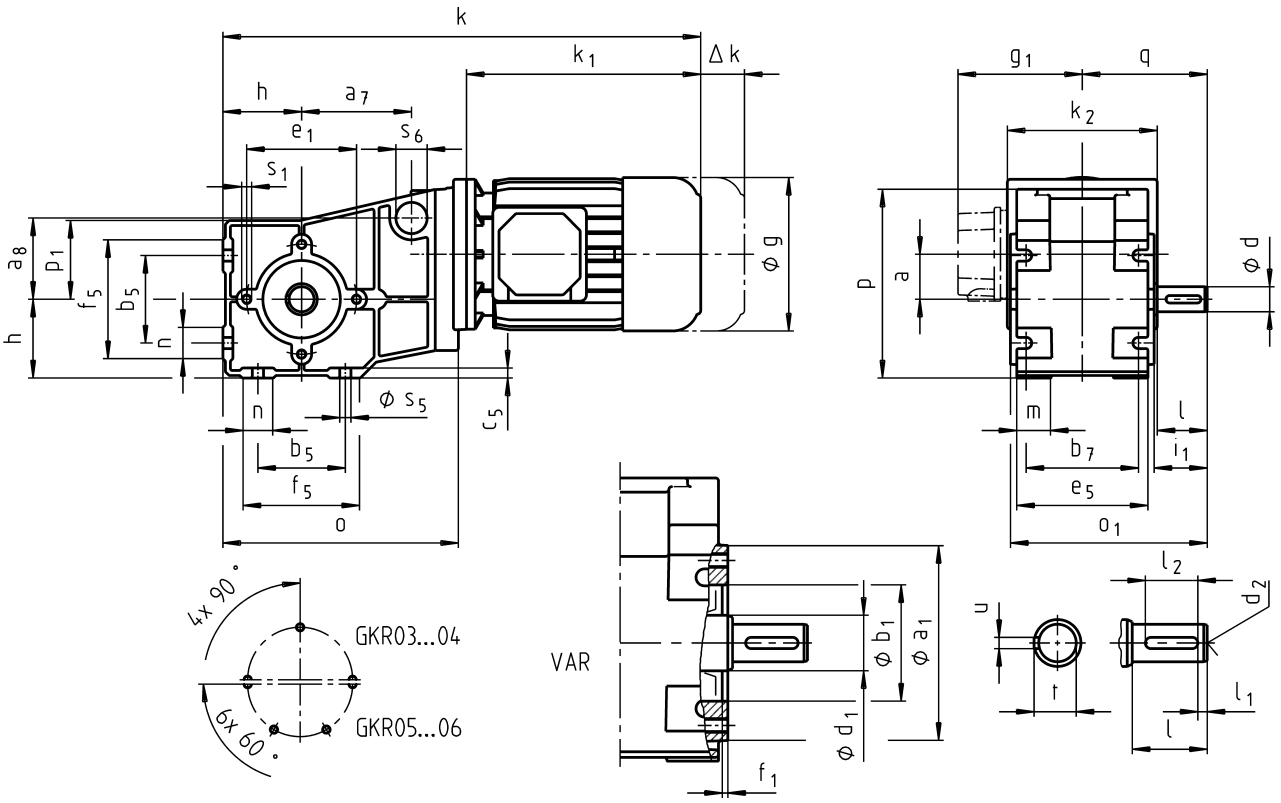
		063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22
g		123	139	156		176	194	218
g_1	MFEMAXX	100	109	141		146	157	167
	MFEMABR	107	118	132		137	147	158
k_1	MFEMAXX	187	207	224.5		274	324	363
k_2		120		145		180		222
Δ k	MFEMABR	40	52	73		68	76	90
	MFFMAXX	128					109	102
	MFFMABR	170	165	183		181	170	183
		k						
GKR03		332						
GKR04		383	403	425				
GKR05		436	456	479		538	588	
GKR06		488	508	530		590	640	685

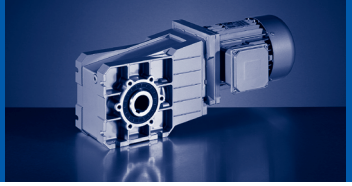
	a	h	k_8	o	p[1]	p_1	q
GKR03	29	50	35	142	117	48	80
GKR04	36	63	28	189	151	63	80
GKR05	40	80	47.5	250.5	181	82	105
GKR06	51	100	54	307	226	100	126.5

	$d^{2)}$	d_1	l	l_1	l_2	u	$t^{3)}$	i_2	$o_1^{1)}$	a_2	b_2	ba_2	c_2	e_2	f_2	fa_2	s_2
	H7					JS9	+0,2				j7	H7					
GKR03	18 20	30 30	100 100	85 85	22 22	6 6	20.8 22.8	30 30	130 130	120 110	80 -	- 60	8 8	100 87	3 -	- 4	7 9
GKR04	20 25	30 35	120 120	105 105	25 25	6 8	22.8 27	20 20	140 140	120 160	80 110		8 8	100 130	3 3.5		7 9
GKR05	30 35	50 50	143 143	127 127	25 25	8 10	33.3 38.3	33.5 33.5	176.5 176.5	160 200	110 130		12 12	130 165	3.5 3.5		9 11
GKR06	40 45	65 65	170 170	150 150	30 30	12 14	43.3 48.8	41.5 41.5	211.5 211.5	200 250	130 180		12 12	165 215	3.5 4		11 14

1) k_2 !
2) l_2 !
3) d = 25 mm > DIN 6885/3

GKR□□-2M V□R


k
k1
Δk
h
a7
e1
s6
s1
a8
p1
f5
b5
n
h
n
ϕ s5
c5
b5
f5
o
ϕ g
g1
q
k2
p
a
ϕ d
m
l
b7
i1
e5
o1
4x 90°
6x 60°
GKR03...04
GKR05...06
VAR
ϕ b1
ϕ a1
ϕ d1
f1
u
t
l2
d2
l1
l



		063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22
g		123	139	156		176	194	218
g_1	MFEMAXX	100	109	141		146	157	167
	MFEMABR	107	118	132		137	147	158
k_1	MFEMAXX	187	207	224.5		274	324	363
k_2		120		145		180		222
Δ k	MFEMABR	40	52	73		68	76	90
	MFFMAXX	128					109	102
	MFFMABR	170	165	183		181	170	183
		k						
GKR03		332						
GKR04		383	403	425				
GKR05		436	456	479		538	588	
GKR06		488	508	530		590	640	685

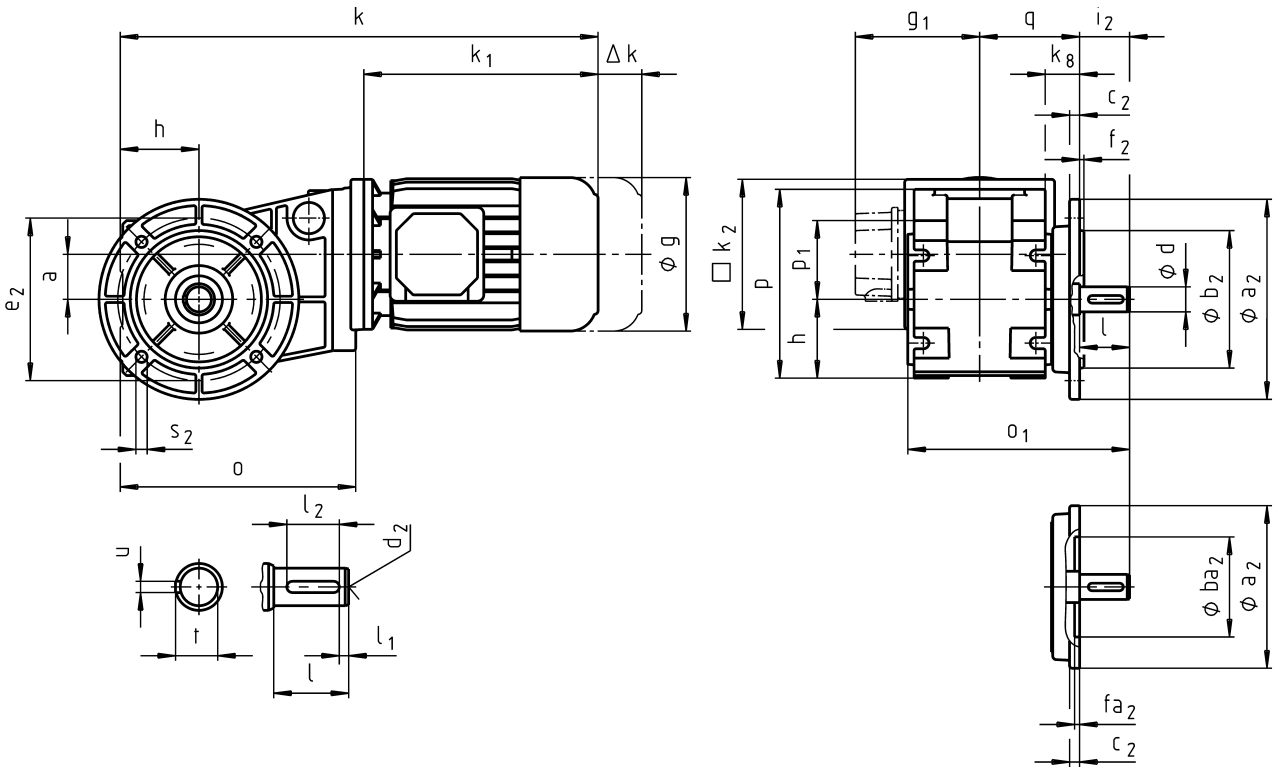
	a	a_7	a_8	h	o	p[1)]	p_1	q	s_6
GKR03	29	66	39	50	142	117	48	90	25
GKR04	36	88	65	63	189	151	63	100	25
GKR05	40			80	250.5	181	82	131.5	
GKR06	51			100	307	226	100	155	

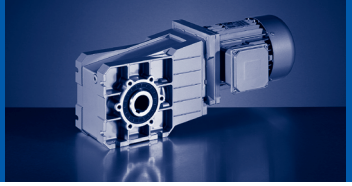
	d	d_1	d_2	l	l_1	l_2	u	t	i_1	o_1[1)]	a_1	b_1	e_1	f_1	s_1
	k6											J7			
GKR03	20	30	M6	40	5	28	6	22.5	42.5	137.5	85	55	70	2.5	M6x12
GKR04	20	30	M6	40	5	28	6	22.5	42.5	158	104	62	88	3	M8x16
GKR05	30	50	M10	60	6	45	8	33	64	199	116	80	100	4	M8x15
GKR06	35	65	M12	70	7	56	10	38	75	235	140	100	120	4	M10x22

	b_5	b_7	c_5	e_5	f_5	m	n	s_5
GKR03	60	75	7	90	80	22	20	6.6
GKR04	70	90	8	105	95	28	25	9
GKR05	100	100	11	115	138	27	48	9
GKR06	120	125	12	145	164	32	53	11

[1)] k_2 !

GKR□□-2M VAK


k
k1
Δk
h
e2
a
s2
o
l2
d2
u
t
l1
l
g1
q
i2
k8
c2
f2
□k2
p
p1
h
φd
φb2
φa2
l
o1
φba2
φa2
fa2
c2



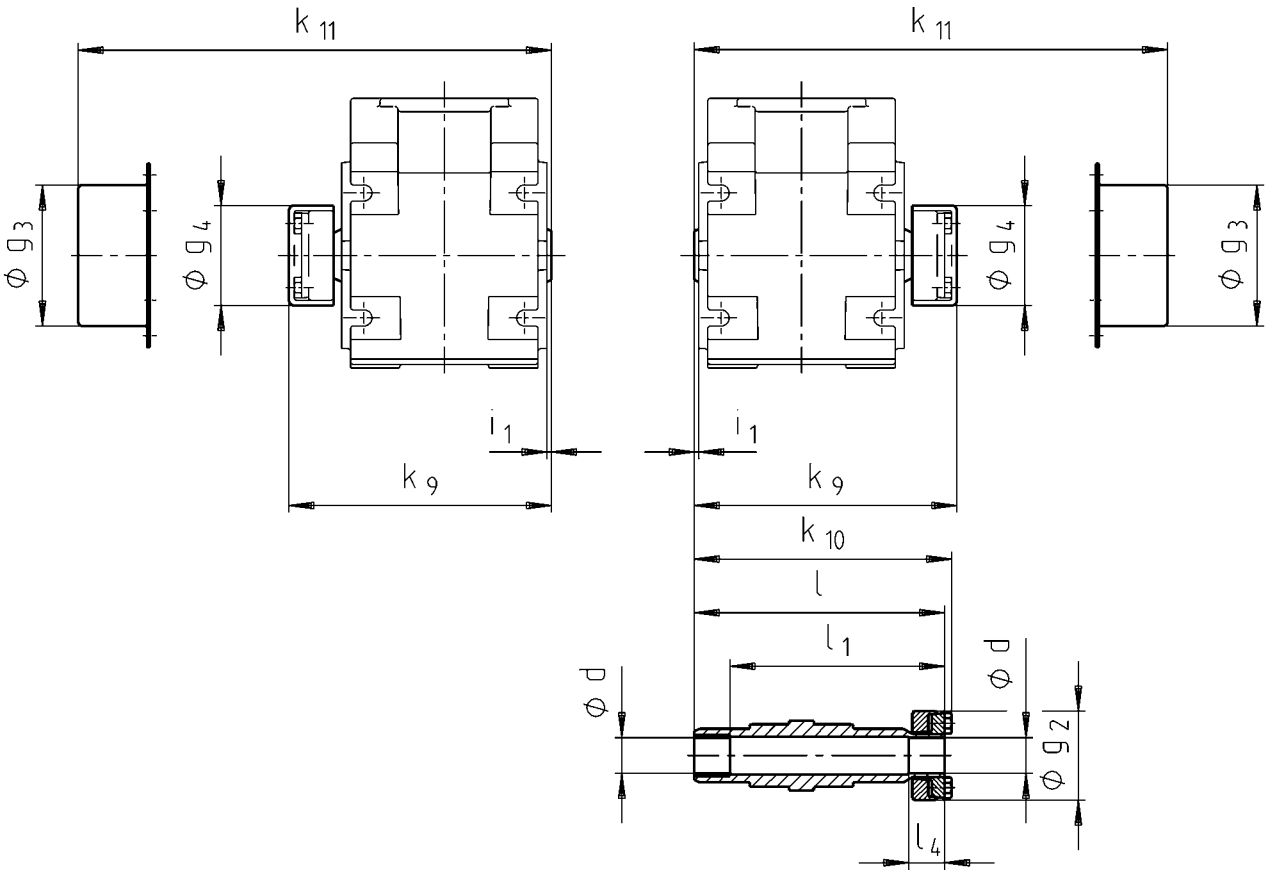
		063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22
g		123	139	156		176	194	218
g_1	MFEMAXX	100	109	141		146	157	167
	MFEMABR	107	118	132		137	147	158
k_1	MFEMAXX	187	207	224.5		274	324	363
k_2		120		145		180		222
Δ k	MFEMABR	40	52	73		68	76	90
	MFFMAXX	128					109	102
	MFFMABR	170	165	183		181	170	183
		k						
GKR03		332						
GKR04		383	403	425				
GKR05		436	456	479		538	588	
GKR06		488	508	530		590	640	685

	a	h	k_8	o	p[1)]	p_1	q
GKR03	29	50	35	142	117	48	80
GKR04	36	63	28	189	151	63	80.5
GKR05	40	80	47.5	250.5	181	82	105
GKR06	51	100	54	307	226	100	126.5

	d	d_2	l	l_1	l_2	u	t	i_2	o_1[1)]	a_2	b_2	ba_2	c_2	e_2	f_2	fa_2	s_2
	k6										j7	H7					
GKR03	20	M6	40	5	28	6	22.5	40	167.5	120 110	80 -	- 60	8 8	100 87	3 -	- 4	7 9
GKR04	20	M6	40	5	28	6	22.5	40	178	120 160	80 110		8 8	100 130	3 3.5		7 9
GKR05	30	M10	60	6	45	8	33	60	232.5	160 200	110 130		12 12	130 165	3.5 3.5		9 11
GKR06	35	M12	70	7	56	10	38	70	276.5	200 250	130 180		12 12	165 215	3.5 4		11 14

[1)] k_2 !

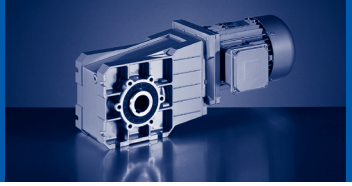
Hollow shaft with shrink disc



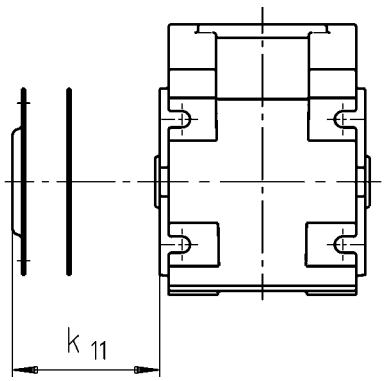
	d [1]	g_2	g_3	g_4	i_1	k_9	k_{10}	k_{11}	l	l_1	l_4
	h6										
GKR03	20	50	65	54	2.5	126	124	138	120	100	20
GKR04						146	144	158	144	120	
GKR05	30 35	80	90	84	4.0	176	177	182	171	151	28
GKR06	40	90	100	94	5.0	202	210	214	204	174	30

[1] Machine shaft design.

- Output flange and hollow shaft with shrink disc (output version SAK) are not possible in the same location. For additional dimensions see output version H□□.
- Ensure that the strength of the machine shaft material is adequate in shrink disc designs.
  When using typical steels (e.g. C45, 42CrMo4), the torques listed in the selection tables can be used without restriction. Please consult us if you wish to use material that is considerably weaker. Medium surface roughness Rz must not exceed 15 µm (machining is sufficient).



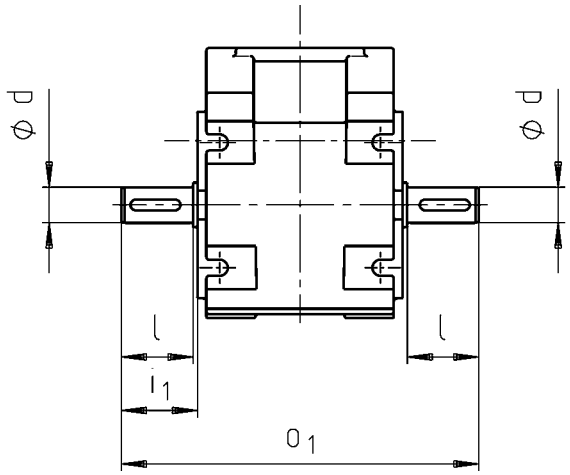
Hoseproof hollow shaft cover



► Cover including gasket

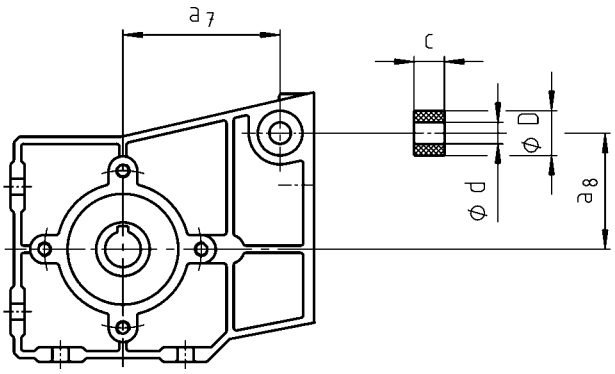
	k_{11}
	[mm]
GKR03	9
GKR04	
GKR05	10
GKR06	11

Gearbox with 2nd output shaft end

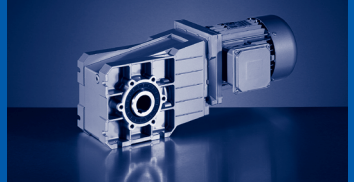


	d	l	i_1	o_1
	k6			
	[mm]	[mm]	[mm]	[mm]
GKR03	20	40	42.5	180
GKR04				200
GKR05	30	60	64.0	263
GKR06	35	70	75.0	310

Rubber buffer for torque plate

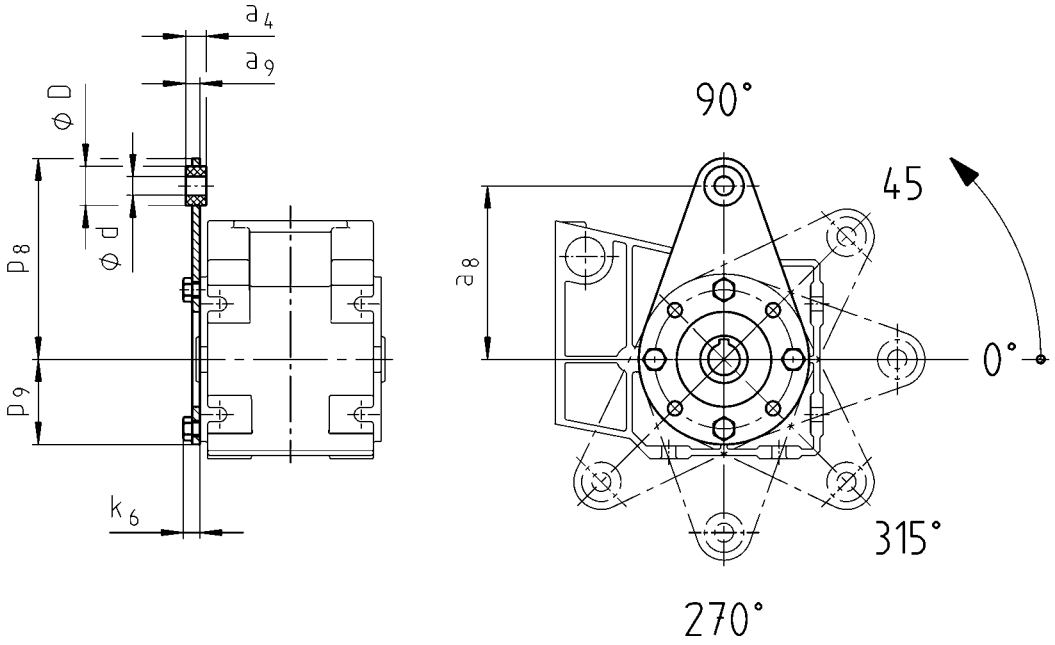


	d	D	c	a_7	a_8
GKR03	10	25	13.0	66.0	39
GKR04				88.0	65

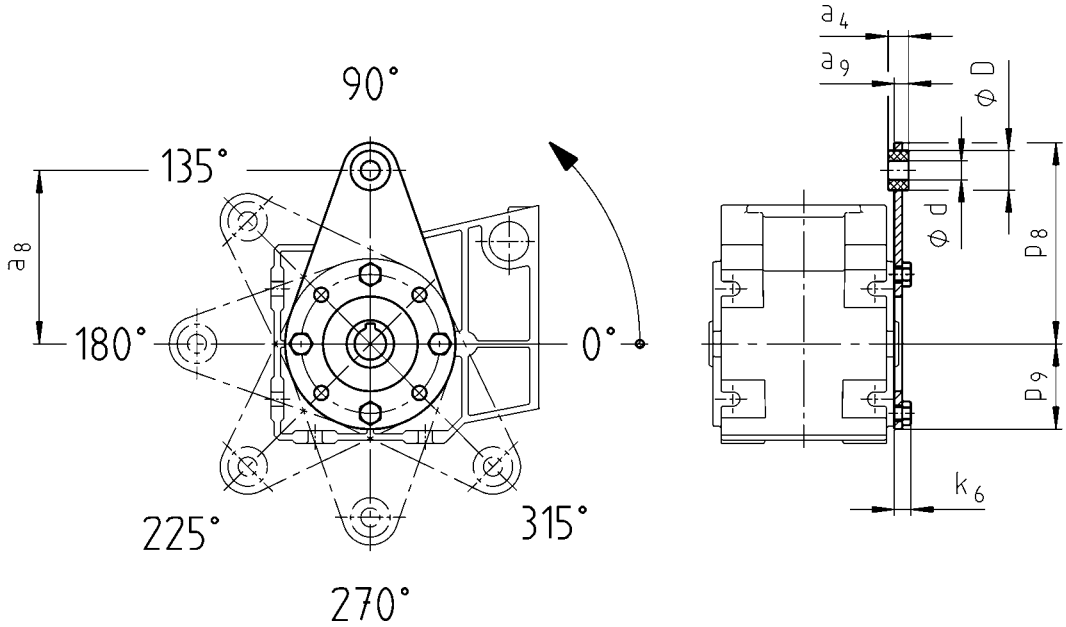


Torque plate on threaded pitch circle

In position 3



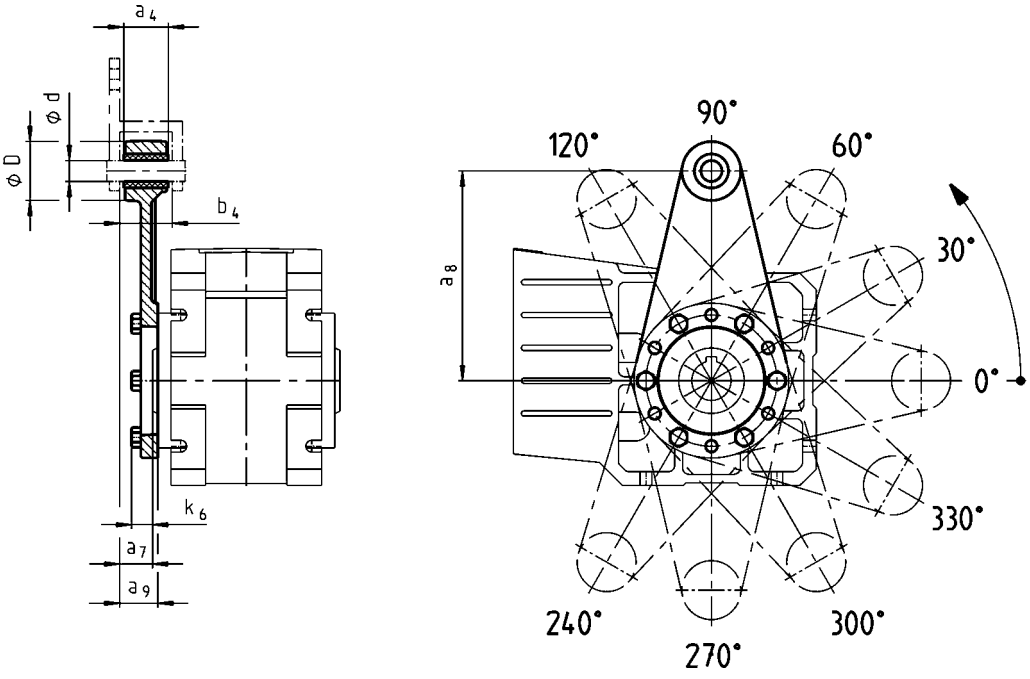
In position 5



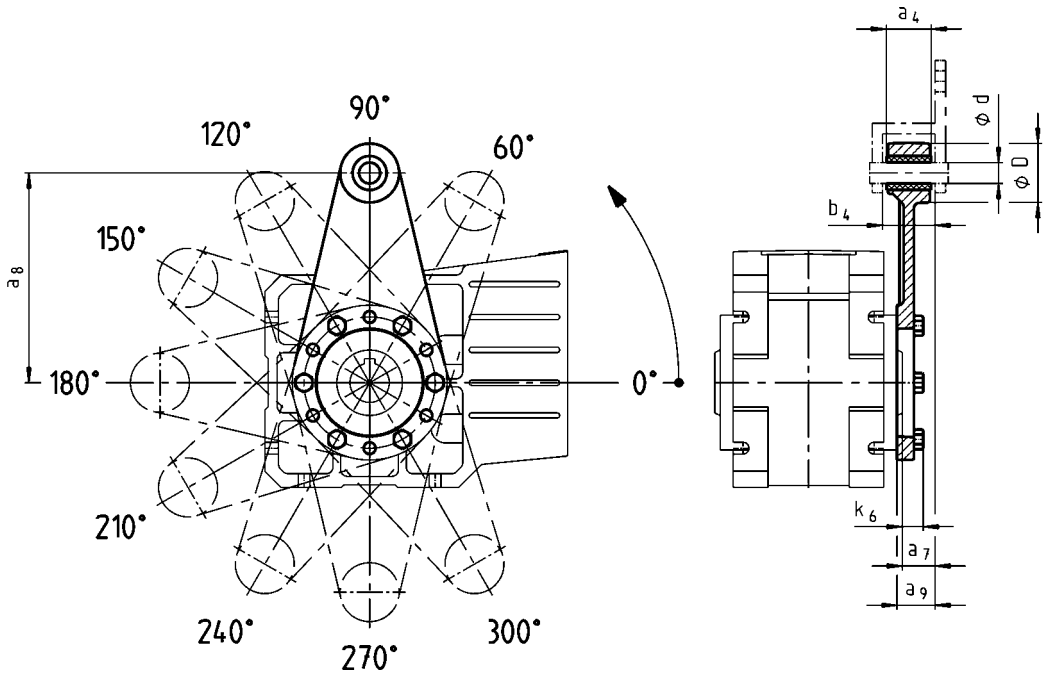
	a_4	a_8	a_9	d	D	k_6	p_8	p_9
GKR03	12	100	8.0	8	20	9	115	42
GKR04	13	110	9.0	10	25	11	128	54

Torque plate on threaded pitch circle

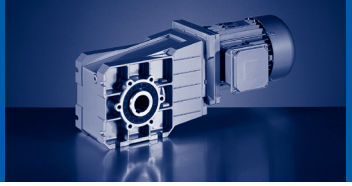
In position 3



In position 5

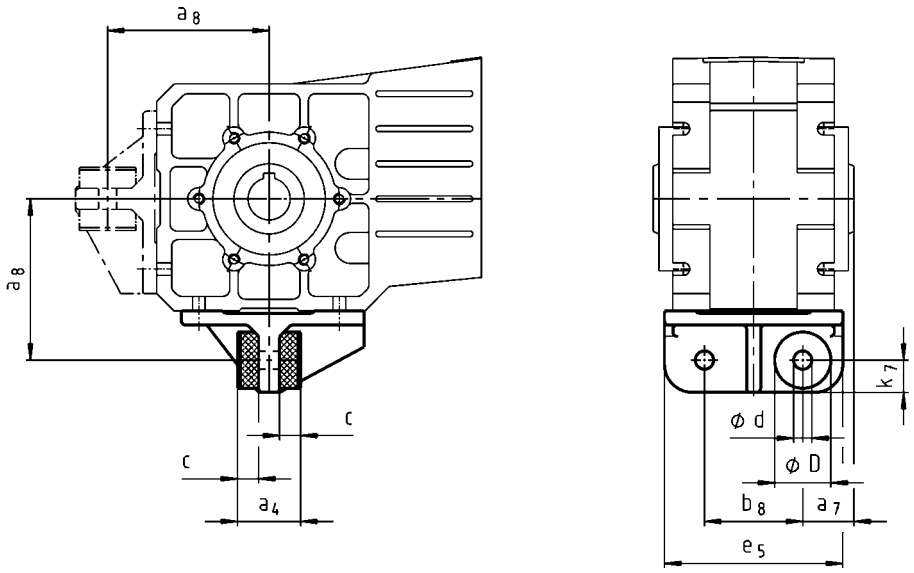


	a_4	a_7	a_8	a_9	b_4	d	D	k_6
GKR05	34	23.5	160	27.5	38.5	16	45	15
GKR06	40	28.0	200	33.0	44.5	20	50	18



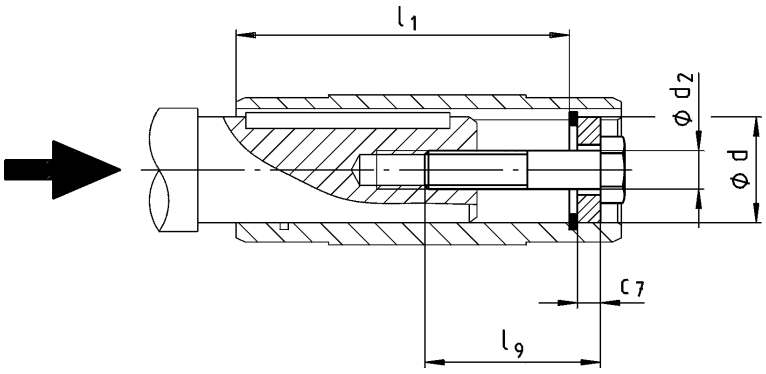
Torque plate at housing foot

In position 4 or 6

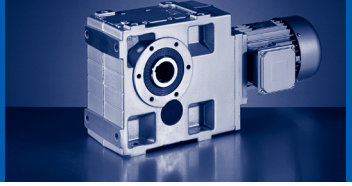


	a_4	a_7	a_8	b_8	c	d	D	e_5	k_7
GKR05	45	36.5	115	70	15.0	13	40	127	25
GKR06	72	45.0	145	80	27.0	17	50	145	30

Mounting set for hollow shaft circlip - Proposed design for auxiliary tools



	d	l_1	d_2	l_9	c_7
	H7				
GKR03	18 20	85	M6	40	4
GKR04	20 25	105	M10		5
GKR05	30 35	127			6
			M12	50	7
GKR06	40 45	150	M16	60	8 9

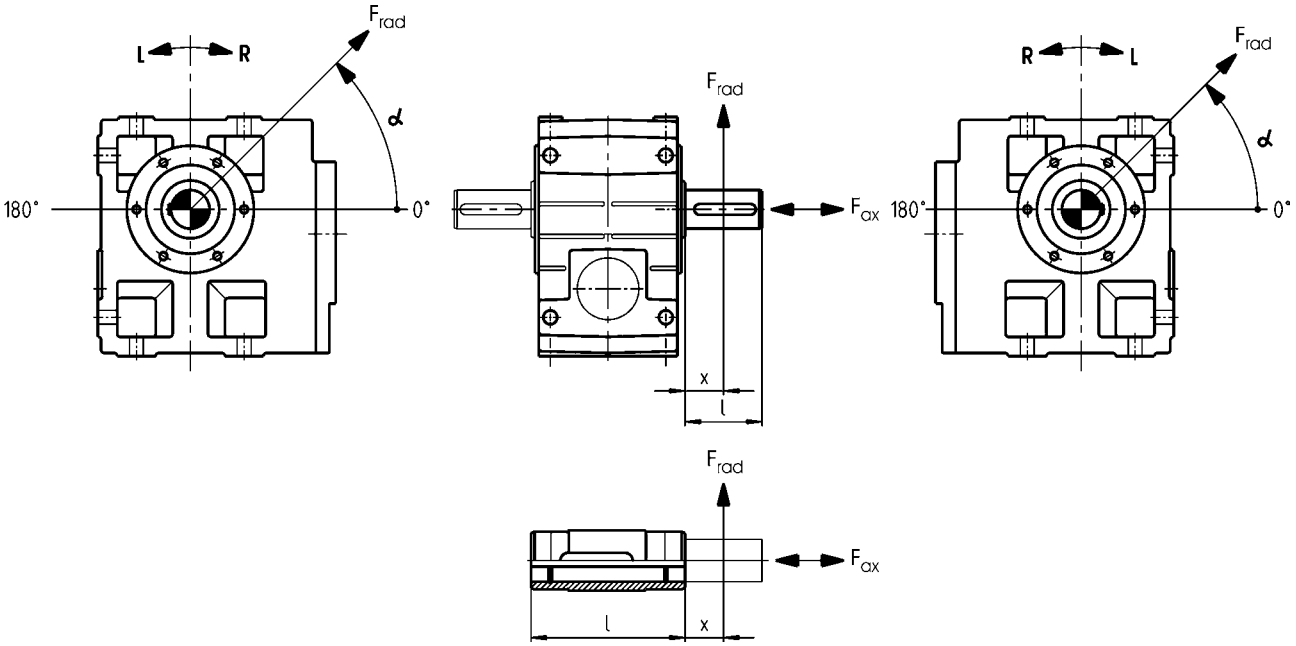


Permissible radial and axial forces at output

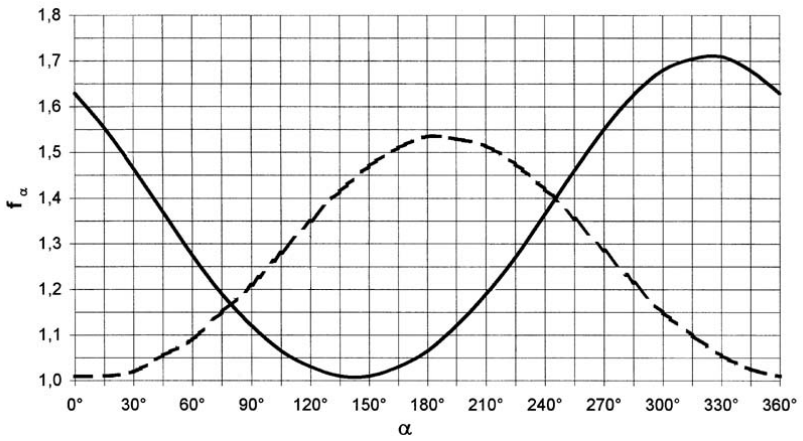
Permissible radial force
$F_{rad,per} = \min(f_w \times f_\alpha \times F_{rad,max}\ ;\ f_w \times F_{rad,max}$ at $n_2 \leq 16$ r/min)

Permissible axial force
$F_{ax,per} = F_{ax,max}$ if $F_{rad} = 0$

If F_{rad} **and** $F_{ax} \neq 0$; please contact Lenze.



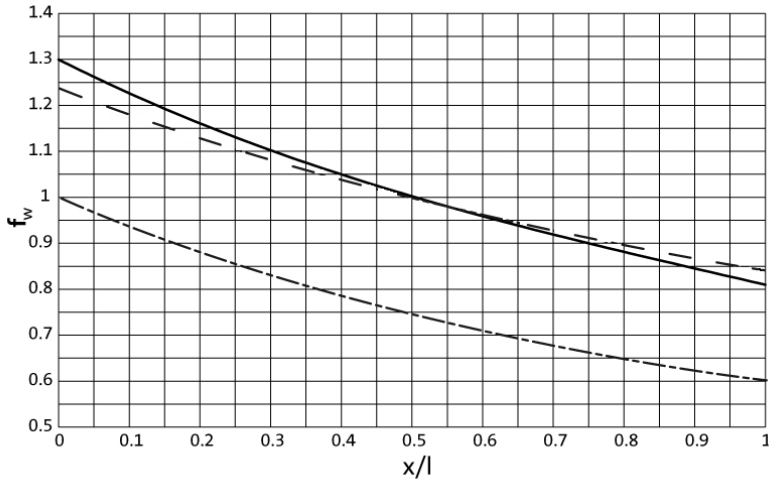
Effective direction factor f_α at output shaft



——— Direction of rotation R
— — — Direction of rotation L

6

Additional load factor f_w at output shaft

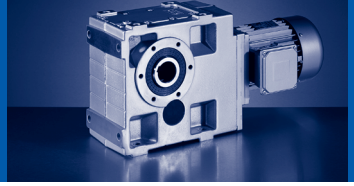


——— Solid shaft (V□□)
— — — Solid shaft with flange (V□K)
— · — Hollow shaft (H□□)

GKS□□-3/4□ H□□

Size	n_2 [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Hollow shaft								
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3100	3900	4500	5100	5900	6800	7000	7000	7000
GKS05	2400	3500	4200	4630	5000	6200	7300	7300	7300
GKS06	3000	4600	5600	6400	7000	8200	10400	12000	12000
GKS07		5400	6300	7400	8700	10500	12500	15100	16000
GKS09		7500	8200	9400	10600	12200	15500	21000	24000
GKS11		9000	10000	11000	14000	16000	18500	25000	30000
GKS14		15000	15500	16500	17500	18500	21000	28000	40000
	Max. axial force, Hollow shaft								
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3300	4200	5000	5500	5500	5500	5500	5500	5500
GKS05	2800	3500	4240	5090	6160	6600	6600	6600	6600
GKS06	3500	4440	5580	6930	8710	10000	10000	10000	10000
GKS07		4900	6230	7820	9940	12600	14000	14000	14000
GKS09		6500	7400	8000	10500	13000	17000	21000	21000
GKS11		7000	8000	9200	12000	14500	18500	27000	27000
GKS14		6000	8000	10000	13000	16000	20000	28000	35000

- Application of force F_{rad}: at hollow shaft end face (x = 0)
- $F_{ax,max}$ only valid with F_{rad} = 0
- Neither radial nor axial forces are permissible for the hollow shaft with shrink disc (S□□).



GKS□□-3/4□ V□R

Size	n_2 [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft without flange								
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	2400	3000	3400	3600	3600	3600	3600	3600	3600
GKS05	2200	2800	3200	3600	4100	4900	5800	5800	5800
GKS06	2700	3700	4300	4900	5300	6200	7900	9000	9000
GKS07		4000	4900	5800	6600	8000	9600	12000	12000
GKS09 [1]		6200	6400	7100	8400	9500	11800	16000	18000
GKS11 [1]		7100	7500	8200	10000	11200	13000	19000	23000
GKS14 [1]		57900	61000	64100	65000	65000	65000	65000	65000
	Max. axial force, Solid shaft without flange								
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3300	4200	5000	5500	5500	5500	5500	5500	5500
GKS05	2800	3500	4240	5090	6160	6600	6600	6600	6600
GKS06	3500	4440	5580	6930	8710	10000	10000	10000	10000
GKS07		4900	6230	7820	9940	12600	14000	14000	14000
GKS09 [1]		6500	7400	8000	10500	13000	17000	21000	21000
GKS11 [1]		7000	8000	9200	12000	14500	18500	27000	27000
GKS14 [1]		35000	35000	35000	35000	35000	35000	35000	35000

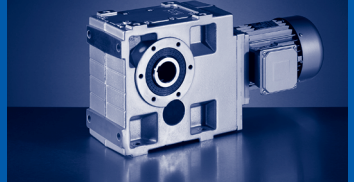
[1] Reinforced output shaft bearings are available on request for V□R versions.

- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0

GKS□□-3/4□ V□K

Size	n_2 [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft with flange								
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3100	3800	4300	4600	4600	4600	4600	4600	4600
GKS05	3800	4640	5420	6280	7000	7000	7000	7000	7000
GKS06	4700	6400	7500	8800	9800	10000	10000	10000	10000
GKS07		7000	8250	9630	11000	13000	14000	14000	14000
GKS09		9900	10500	12000	14000	15000	15000	15000	15000
GKS11		14500	16000	17600	21000	24500	28000	30000	30000
GKS14		20500	23700	27200	31300	35000	41000	43000	43000
	Max. axial force, Solid shaft with flange								
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3300	4200	4400	4400	4400	4400	4400	4400	4400
GKS05	2900	3630	4440	5420	6600	6600	6600	6600	6600
GKS06	3700	4660	5880	7320	9230	10000	10000	10000	10000
GKS07		5700	7000	8500	10400	11500	11500	11500	11500
GKS09		6000	6600	7600	10000	12000	15000	17000	17000
GKS11		7000	7500	8500	10500	13000	17500	27000	27000
GKS14		8400	10000	11500	13000	15000	19000	28000	35000

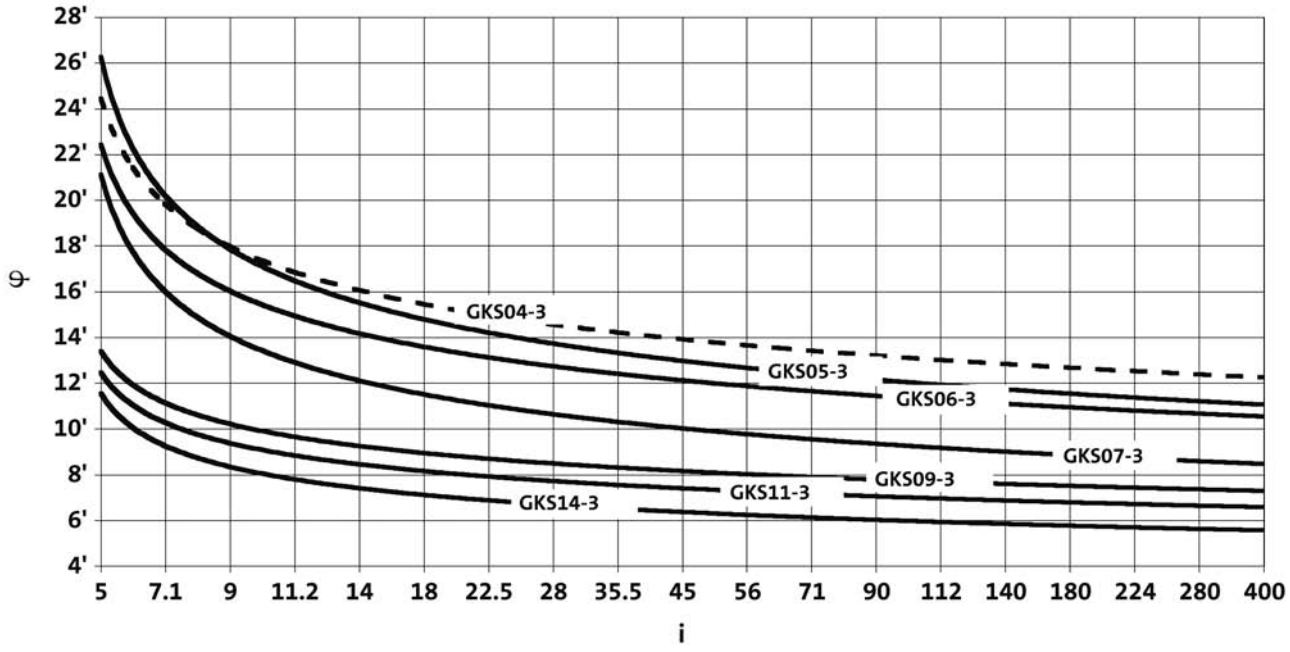
- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0



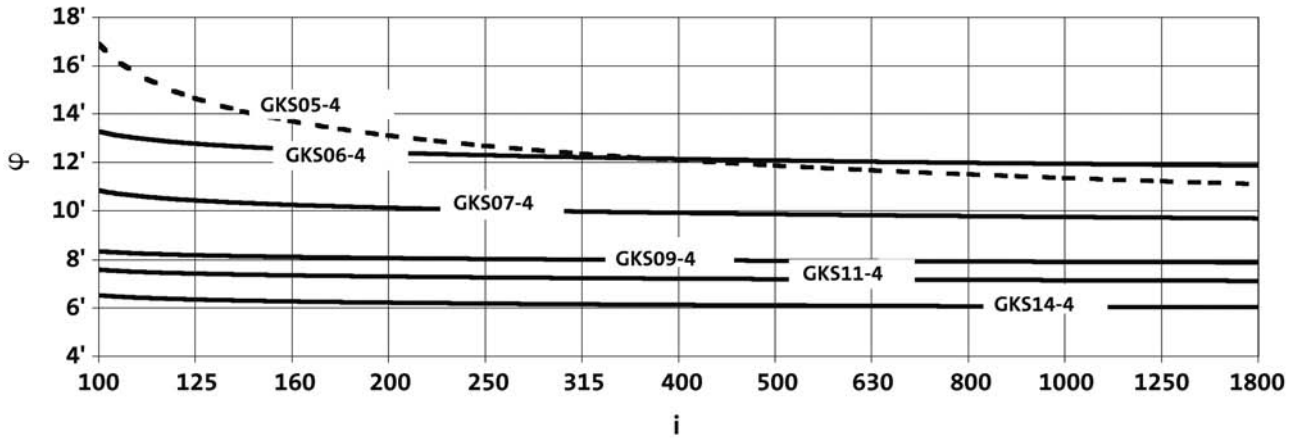
Output backlash in angular minutes

► Backlash φ depending on ratio i

GKS04...14-3



GKS05...14-4



6

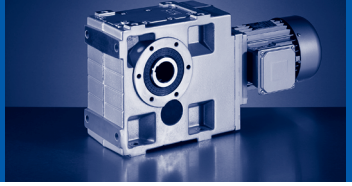
GKS□□-3

► Moment of inertia (J) depending on ratio i

Gearbox			GKS04
5.123	J	[kgcm²]	1.170
7.025	J	[kgcm²]	0.676
8.167	J	[kgcm²]	0.863
8.991	J	[kgcm²]	0.444
11.730	J	[kgcm²]	0.729
13.067	J	[kgcm²]	0.701
14.333	J	[kgcm²]	0.346
16.087	J	[kgcm²]	0.443
17.920	J	[kgcm²]	0.428
20.588	J	[kgcm²]	0.302
22.522	J	[kgcm²]	0.262
25.088	J	[kgcm²]	0.254
28.727	J	[kgcm²]	0.182
32.000	J	[kgcm²]	0.177
35.191	J	[kgcm²]	0.136
39.200	J	[kgcm²]	0.132
44.240	J	[kgcm²]	0.090
50.943	J	[kgcm²]	0.181
56.976	J	[kgcm²]	0.061
64.978	J	[kgcm²]	0.132
72.210	J	[kgcm²]	0.040
79.598	J	[kgcm²]	0.103
90.491	J	[kgcm²]	0.027
100.067	J	[kgcm²]	0.069
111.467	J	[kgcm²]	0.069
128.874	J	[kgcm²]	0.048
143.556	J	[kgcm²]	0.048
163.332	J	[kgcm²]	0.032
181.939	J	[kgcm²]	0.032
204.682	J	[kgcm²]	0.022
228.000	J	[kgcm²]	0.022
269.660	J	[kgcm²]	0.014
300.381	J	[kgcm²]	0.014

Gearbox			GKS05
6.863	J	[kgcm²]	1.900
9.412	J	[kgcm²]	1.170
10.569	J	[kgcm²]	1.600
11.667	J	[kgcm²]	1.647
13.176	J	[kgcm²]	0.711
14.494	J	[kgcm²]	1.045
16.000	J	[kgcm²]	1.040
17.054	J	[kgcm²]	1.505
19.216	J	[kgcm²]	1.474
23.388	J	[kgcm²]	0.964
26.353	J	[kgcm²]	0.948
29.931	J	[kgcm²]	0.674
32.744	J	[kgcm²]	0.584
36.894	J	[kgcm²]	0.576
41.765	J	[kgcm²]	0.419
47.059	J	[kgcm²]	0.414
51.162	J	[kgcm²]	0.321
57.647	J	[kgcm²]	0.317
66.592	J	[kgcm²]	0.200
75.033	J	[kgcm²]	0.198
82.833	J	[kgcm²]	0.145
93.333	J	[kgcm²]	0.144
107.196	J	[kgcm²]	0.091
120.784	J	[kgcm²]	0.091
130.097	J	[kgcm²]	0.067
146.588	J	[kgcm²]	0.066
166.276	J	[kgcm²]	0.043
187.353	J	[kgcm²]	0.042
211.200	J	[kgcm²]	0.081
227.484	J	[kgcm²]	0.060
256.320	J	[kgcm²]	0.060
290.745	J	[kgcm²]	0.038
327.600	J	[kgcm²]	0.038

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



- Moment of inertia (J) depending on ratio i

Gearbox			GKS06
6.485	J	[kgcm²]	5.870
9.196	J	[kgcm²]	5.048
10.147	J	[kgcm²]	4.858
11.382	J	[kgcm²]	2.492
12.612	J	[kgcm²]	3.199
14.824	J	[kgcm²]	4.287
16.699	J	[kgcm²]	4.163
17.809	J	[kgcm²]	2.126
20.329	J	[kgcm²]	2.794
22.902	J	[kgcm²]	2.729
26.017	J	[kgcm²]	1.941
28.461	J	[kgcm²]	1.666
32.063	J	[kgcm²]	1.632
36.303	J	[kgcm²]	1.183
41.472	J	[kgcm²]	2.110
44.471	J	[kgcm²]	0.900
53.074	J	[kgcm²]	1.523
57.882	J	[kgcm²]	0.578
65.207	J	[kgcm²]	0.570
72.000	J	[kgcm²]	0.422
81.111	J	[kgcm²]	0.416
93.176	J	[kgcm²]	0.257
104.967	J	[kgcm²]	0.254
113.082	J	[kgcm²]	0.189
127.392	J	[kgcm²]	0.186
142.941	J	[kgcm²]	0.122
161.029	J	[kgcm²]	0.121
190.080	J	[kgcm²]	0.227
214.133	J	[kgcm²]	0.226
230.688	J	[kgcm²]	0.168
259.880	J	[kgcm²]	0.167
291.600	J	[kgcm²]	0.109
328.500	J	[kgcm²]	0.109

Gearbox			GKS07
5.955	J	[kgcm²]	19.300
8.254	J	[kgcm²]	11.800
9.171	J	[kgcm²]	16.000
10.124	J	[kgcm²]	15.882
11.378	J	[kgcm²]	7.019
12.711	J	[kgcm²]	10.164
14.798	J	[kgcm²]	14.306
16.674	J	[kgcm²]	13.965
17.270	J	[kgcm²]	7.258
20.511	J	[kgcm²]	9.084
23.111	J	[kgcm²]	8.906
25.244	J	[kgcm²]	6.716
28.274	J	[kgcm²]	5.567
31.858	J	[kgcm²]	5.473
36.063	J	[kgcm²]	3.650
40.906	J	[kgcm²]	6.934
44.178	J	[kgcm²]	2.779
50.345	J	[kgcm²]	5.298
57.501	J	[kgcm²]	1.748
64.790	J	[kgcm²]	1.725
70.474	J	[kgcm²]	1.295
79.407	J	[kgcm²]	1.280
92.563	J	[kgcm²]	0.808
104.296	J	[kgcm²]	0.799
112.338	J	[kgcm²]	0.592
126.578	J	[kgcm²]	0.586
140.548	J	[kgcm²]	1.113
158.364	J	[kgcm²]	1.113
184.600	J	[kgcm²]	0.687
208.000	J	[kgcm²]	0.685
224.037	J	[kgcm²]	0.510
252.436	J	[kgcm²]	0.509
283.193	J	[kgcm²]	0.330
319.091	J	[kgcm²]	0.329

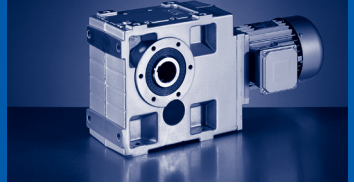
- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

► Moment of inertia (J) depending on ratio i

Gearbox			GKS09
12.283	J	[kgcm²]	34.200
13.360	J	[kgcm²]	33.400
16.122	J	[kgcm²]	22.600
17.536	J	[kgcm²]	22.200
19.541	J	[kgcm²]	30.600
22.022	J	[kgcm²]	29.900
25.649	J	[kgcm²]	20.500
29.228	J	[kgcm²]	15.900
32.940	J	[kgcm²]	15.600
35.193	J	[kgcm²]	12.200
39.662	J	[kgcm²]	12.000
43.146	J	[kgcm²]	9.000
48.625	J	[kgcm²]	8.870
58.456	J	[kgcm²]	5.540
65.879	J	[kgcm²]	5.470
70.982	J	[kgcm²]	4.140
79.996	J	[kgcm²]	4.100
91.860	J	[kgcm²]	2.630
103.524	J	[kgcm²]	2.610
111.484	J	[kgcm²]	1.920
125.641	J	[kgcm²]	1.900
140.921	J	[kgcm²]	1.260
158.816	J	[kgcm²]	1.250
182.000	J	[kgcm²]	2.250
205.111	J	[kgcm²]	2.240
220.882	J	[kgcm²]	1.660
248.930	J	[kgcm²]	1.650
279.205	J	[kgcm²]	1.100
314.659	J	[kgcm²]	1.100

Gearbox			GKS11
12.094	J	[kgcm²]	104.000
13.154	J	[kgcm²]	101.000
15.874	J	[kgcm²]	68.000
17.265	J	[kgcm²]	66.500
19.515	J	[kgcm²]	90.300
21.989	J	[kgcm²]	90.400
25.615	J	[kgcm²]	61.200
28.021	J	[kgcm²]	52.200
31.573	J	[kgcm²]	51.300
35.741	J	[kgcm²]	36.800
40.272	J	[kgcm²]	36.200
43.783	J	[kgcm²]	27.900
49.333	J	[kgcm²]	27.500
57.683	J	[kgcm²]	17.700
64.995	J	[kgcm²]	17.500
70.887	J	[kgcm²]	13.000
79.873	J	[kgcm²]	12.900
91.737	J	[kgcm²]	8.300
103.365	J	[kgcm²]	8.210
111.335	J	[kgcm²]	6.050
125.448	J	[kgcm²]	5.990
140.732	J	[kgcm²]	3.960
158.571	J	[kgcm²]	3.930
186.572	J	[kgcm²]	7.070
210.222	J	[kgcm²]	7.050
226.431	J	[kgcm²]	5.210
255.133	J	[kgcm²]	5.200
286.219	J	[kgcm²]	3.440
322.500	J	[kgcm²]	3.430

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



- Moment of inertia (J) depending on ratio i

Gearbox			GKS14
12.435	J	[kgcm²]	283.000
13.525	J	[kgcm²]	275.000
16.646	J	[kgcm²]	198.000
18.311	J	[kgcm²]	173.000
20.065	J	[kgcm²]	249.000
22.609	J	[kgcm²]	243.000
24.696	J	[kgcm²]	183.000
27.165	J	[kgcm²]	159.000
30.609	J	[kgcm²]	156.000
34.692	J	[kgcm²]	111.000
39.089	J	[kgcm²]	109.000
42.531	J	[kgcm²]	82.400
47.923	J	[kgcm²]	81.100
56.251	J	[kgcm²]	54.200
63.382	J	[kgcm²]	53.500
68.942	J	[kgcm²]	38.900
77.681	J	[kgcm²]	38.400
90.551	J	[kgcm²]	25.100
102.029	J	[kgcm²]	24.900
109.896	J	[kgcm²]	18.300
123.826	J	[kgcm²]	18.100
138.913	J	[kgcm²]	12.000
156.522	J	[kgcm²]	11.900
186.572	J	[kgcm²]	21.600
210.222	J	[kgcm²]	21.500
226.431	J	[kgcm²]	15.900
255.133	J	[kgcm²]	15.800
286.219	J	[kgcm²]	10.500
322.500	J	[kgcm²]	10.500

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

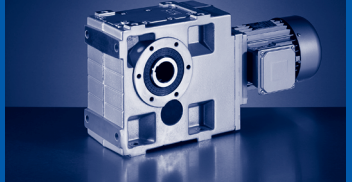
GKS□□-4

► Moment of inertia (J) depending on ratio i

Gearbox			GKS05
95.238	J	[kgcm²]	0.143
114.987	J	[kgcm²]	0.196
126.933	J	[kgcm²]	0.196
146.667	J	[kgcm²]	0.142
161.905	J	[kgcm²]	0.141
185.547	J	[kgcm²]	0.195
209.067	J	[kgcm²]	0.195
225.867	J	[kgcm²]	0.073
236.667	J	[kgcm²]	0.141
289.917	J	[kgcm²]	0.108
326.667	J	[kgcm²]	0.108
364.467	J	[kgcm²]	0.073
410.667	J	[kgcm²]	0.073
469.389	J	[kgcm²]	0.050
510.000	J	[kgcm²]	0.023
528.889	J	[kgcm²]	0.050
594.894	J	[kgcm²]	0.033
670.303	J	[kgcm²]	0.033
820.760	J	[kgcm²]	0.050
924.800	J	[kgcm²]	0.050
1040.215	J	[kgcm²]	0.033
1172.073	J	[kgcm²]	0.033
1303.560	J	[kgcm²]	0.023
1468.800	J	[kgcm²]	0.023
1717.389	J	[kgcm²]	0.014
1935.086	J	[kgcm²]	0.014

Gearbox			GKS06
103.721	J	[kgcm²]	0.300
113.205	J	[kgcm²]	0.234
127.059	J	[kgcm²]	0.264
140.816	J	[kgcm²]	0.213
155.647	J	[kgcm²]	0.191
174.336	J	[kgcm²]	0.112
202.588	J	[kgcm²]	0.168
224.524	J	[kgcm²]	0.074
252.000	J	[kgcm²]	0.155
279.286	J	[kgcm²]	0.069
316.800	J	[kgcm²]	0.102
361.429	J	[kgcm²]	0.064
408.000	J	[kgcm²]	0.068
458.067	J	[kgcm²]	0.042
517.091	J	[kgcm²]	0.044
555.927	J	[kgcm²]	0.041
640.800	J	[kgcm²]	0.062
696.668	J	[kgcm²]	0.028
812.137	J	[kgcm²]	0.040
914.907	J	[kgcm²]	0.040
1017.741	J	[kgcm²]	0.028
1146.529	J	[kgcm²]	0.028
1340.834	J	[kgcm²]	0.017
1510.507	J	[kgcm²]	0.017

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

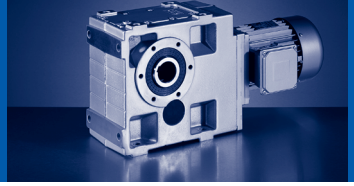


- Moment of inertia (J) depending on ratio i

Gearbox			GKS07
103.039	J	[kgcm²]	0.837
112.391	J	[kgcm²]	0.632
126.222	J	[kgcm²]	0.729
137.748	J	[kgcm²]	0.571
154.622	J	[kgcm²]	0.527
179.201	J	[kgcm²]	0.283
201.254	J	[kgcm²]	0.454
222.909	J	[kgcm²]	0.199
246.659	J	[kgcm²]	0.417
273.199	J	[kgcm²]	0.184
321.049	J	[kgcm²]	0.256
358.829	J	[kgcm²]	0.169
399.353	J	[kgcm²]	0.182
464.367	J	[kgcm²]	0.106
516.810	J	[kgcm²]	0.113
563.572	J	[kgcm²]	0.101
636.581	J	[kgcm²]	0.161
683.972	J	[kgcm²]	0.074
823.810	J	[kgcm²]	0.101
928.237	J	[kgcm²]	0.101
999.806	J	[kgcm²]	0.073
1126.542	J	[kgcm²]	0.073
1277.842	J	[kgcm²]	0.047
1439.822	J	[kgcm²]	0.047

Gearbox			GKS09
100.551	J	[kgcm²]	2.480
113.320	J	[kgcm²]	2.456
123.275	J	[kgcm²]	2.107
138.929	J	[kgcm²]	2.091
151.012	J	[kgcm²]	1.516
170.188	J	[kgcm²]	1.505
204.596	J	[kgcm²]	1.244
230.577	J	[kgcm²]	1.239
248.439	J	[kgcm²]	1.128
279.986	J	[kgcm²]	1.125
323.365	J	[kgcm²]	0.713
364.427	J	[kgcm²]	0.710
402.234	J	[kgcm²]	0.509
453.311	J	[kgcm²]	0.507
520.538	J	[kgcm²]	0.466
586.638	J	[kgcm²]	0.465
631.744	J	[kgcm²]	0.443
711.965	J	[kgcm²]	0.443
817.551	J	[kgcm²]	0.276
921.367	J	[kgcm²]	0.276
992.209	J	[kgcm²]	0.201
1118.204	J	[kgcm²]	0.201
1254.197	J	[kgcm²]	0.130
1413.461	J	[kgcm²]	0.130

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

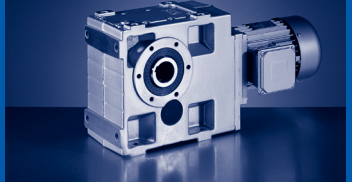


► Moment of inertia (J) depending on ratio i

Gearbox			GKS11
102.119	J	[kgcm²]	7.276
115.063	J	[kgcm²]	7.205
125.095	J	[kgcm²]	6.233
140.952	J	[kgcm²]	6.186
153.242	J	[kgcm²]	4.500
172.667	J	[kgcm²]	4.469
201.890	J	[kgcm²]	3.735
227.481	J	[kgcm²]	3.717
248.106	J	[kgcm²]	3.355
279.556	J	[kgcm²]	3.343
322.931	J	[kgcm²]	2.088
363.866	J	[kgcm²]	2.081
395.787	J	[kgcm²]	1.521
445.958	J	[kgcm²]	1.517
512.196	J	[kgcm²]	1.385
577.122	J	[kgcm²]	1.382
621.619	J	[kgcm²]	1.314
700.416	J	[kgcm²]	1.312
816.455	J	[kgcm²]	0.819
919.949	J	[kgcm²]	0.818
990.879	J	[kgcm²]	0.600
1116.484	J	[kgcm²]	0.599
1252.516	J	[kgcm²]	0.386
1411.286	J	[kgcm²]	0.385

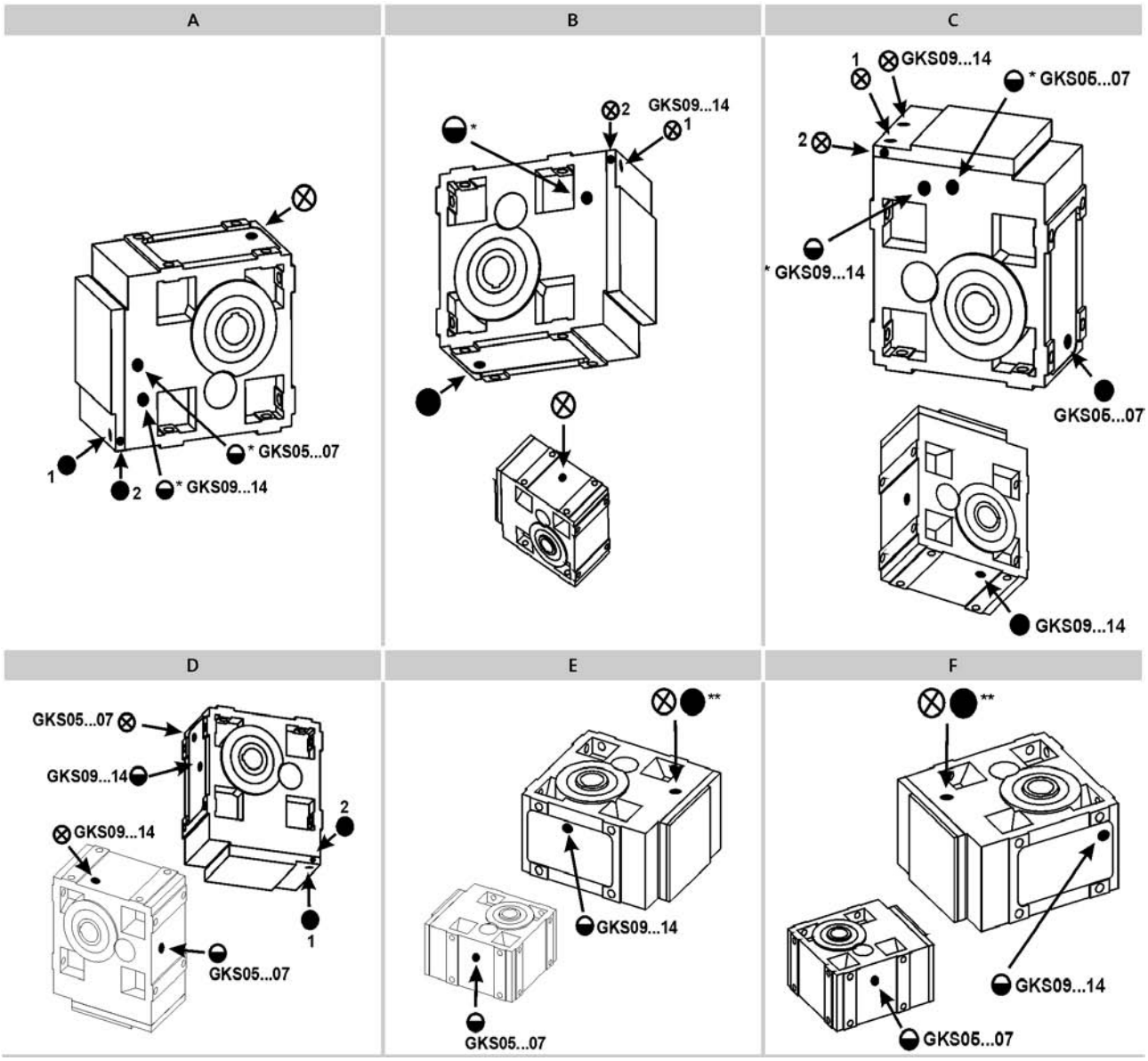
Gearbox			GKS14
97.467	J	[kgcm²]	23.471
109.822	J	[kgcm²]	23.232
119.493	J	[kgcm²]	19.936
134.640	J	[kgcm²]	19.777
158.039	J	[kgcm²]	16.438
178.072	J	[kgcm²]	16.348
193.754	J	[kgcm²]	12.076
218.315	J	[kgcm²]	12.016
237.467	J	[kgcm²]	10.871
267.568	J	[kgcm²]	10.830
321.729	J	[kgcm²]	6.420
362.512	J	[kgcm²]	6.398
390.671	J	[kgcm²]	4.749
440.193	J	[kgcm²]	4.734
513.121	J	[kgcm²]	4.330
578.164	J	[kgcm²]	4.322
622.742	J	[kgcm²]	4.122
701.681	J	[kgcm²]	4.116
805.901	J	[kgcm²]	2.620
908.058	J	[kgcm²]	2.617
978.071	J	[kgcm²]	1.912
1102.052	J	[kgcm²]	1.909
1236.326	J	[kgcm²]	1.259
1393.043	J	[kgcm²]	1.258

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



Position of ventilation, sealing elements and oil level check

GKS05...14-3

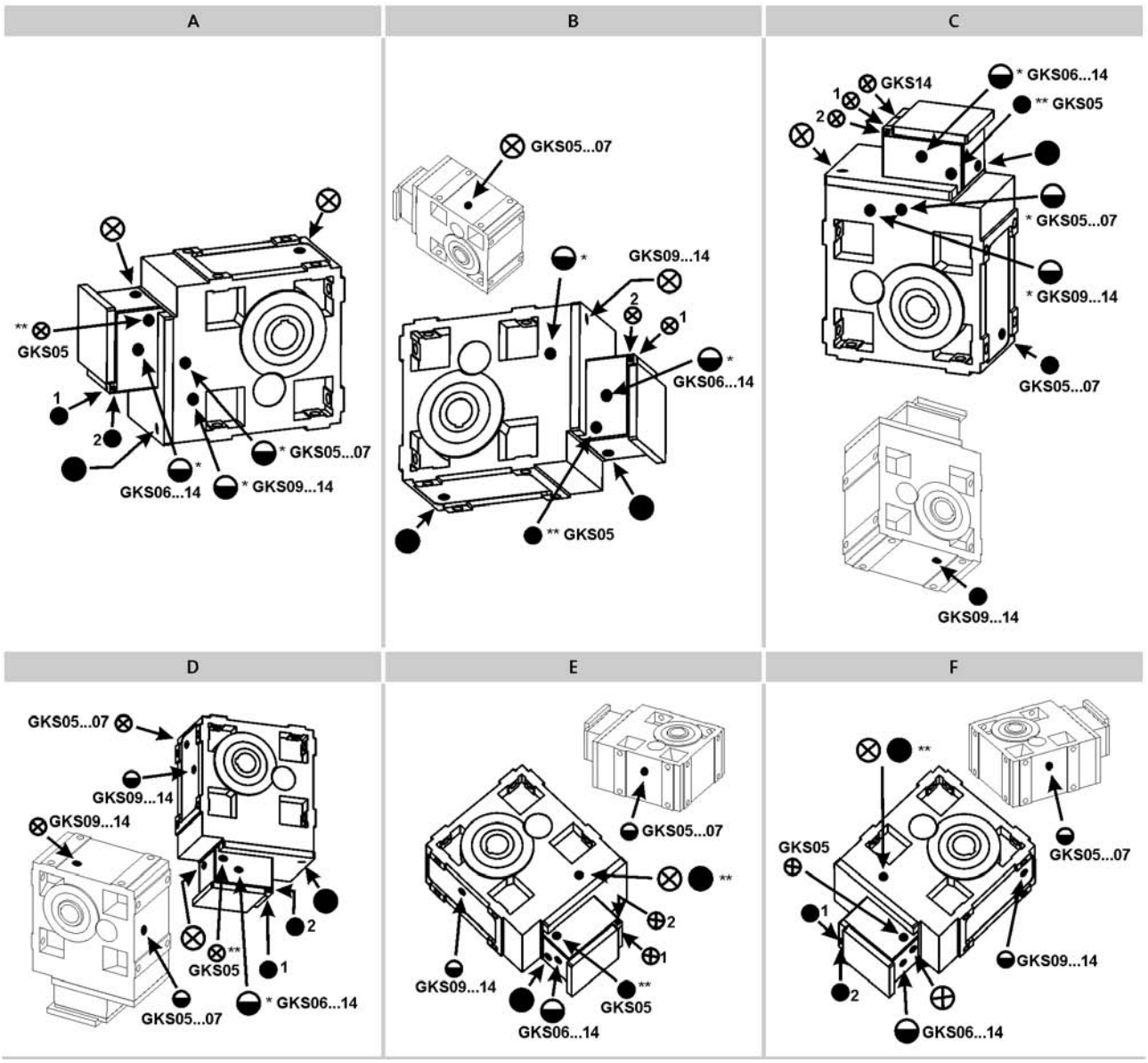


A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

Pos.1 standard
Pos.2 only with:
- GKS05-3M □□□ 090C□□
- GKS05-3M □□□ 100C□□
- GKS06-3M □□□ 112C□□

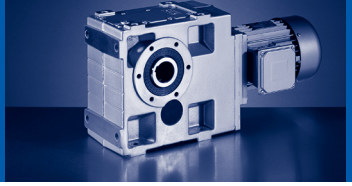
6

GKS05...14-4



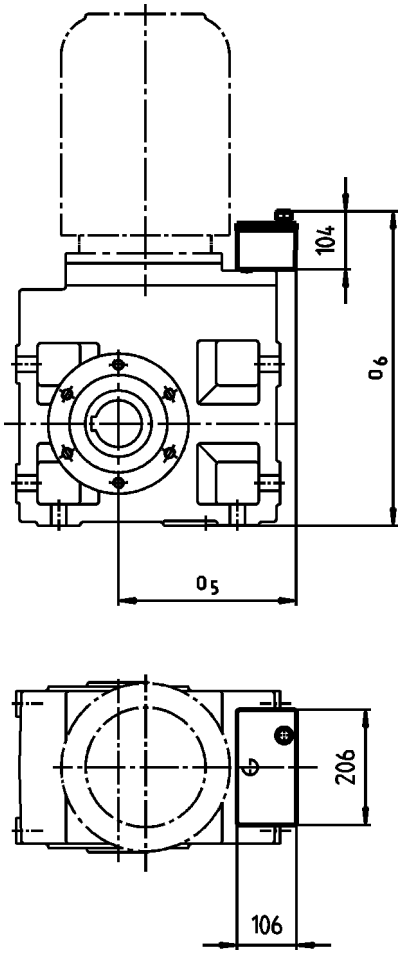
A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

Item 1 standard
Item 2 only with:
- GKS07-4M □□□ 090C□□
- GKS07-4M □□□ 100C□□
- GKS09-4M □□□ 112C□□



Compensation reservoir for mounting position C

GKS□□-3



Motor	090 100		112		132			
	o_5	o_6	o_5	o_6	o_5	o_6	o_5	o_6
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
GKS09	243	533	265	533	282	533	282	533
GKS11	258	626	280	630	304	630	304	630
GKS14			313	739	343	739	343	739

► Terminal box position 4 not permitted.

GKS□□-3M HAR / HBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GKS04	m	[kg]	16	18	23	
GKS05	m	[kg]	26	28	33	41
GKS06	m	[kg]	40	42	47	55
GKS07	m	[kg]			73	81
GKS09	m	[kg]				129

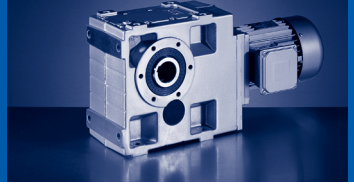
			100C12 100C32	112C22	132C12 132C22	132C32
GKS06	m	[kg]	64			
GKS07	m	[kg]	89	102	132	
GKS09	m	[kg]	138	150	181	
GKS11	m	[kg]	237	249	279	
GKS14	m	[kg]		420	447	

GKS□□-3M HAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GKS04	m	[kg]	19	21	26	
GKS05	m	[kg]	30	32	37	45
GKS06	m	[kg]	47	49	54	62
GKS07	m	[kg]			84	92
GKS09	m	[kg]				145

			100C12 100C32	112C22	132C12 132C22	132C32
GKS06	m	[kg]	71			
GKS07	m	[kg]	100	113	143	
GKS09	m	[kg]	154	166	197	
GKS11	m	[kg]	261	273	303	
GKS14	m	[kg]		453	480	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GKS□□-3M VAR / VBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GKS04	m	[kg]	17	19	24	
GKS05	m	[kg]	27	29	34	42
GKS06	m	[kg]	43	45	49	58
GKS07	m	[kg]			78	86
GKS09	m	[kg]				137

			100C12 100C32	112C22	132C12 132C22	132C32
GKS06	m	[kg]	66			
GKS07	m	[kg]	94	107	137	
GKS09	m	[kg]	146	158	189	
GKS11	m	[kg]	253	265	295	
GKS14	m	[kg]		453	480	

GKS□□-3M VAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GKS04	m	[kg]	19	21	26	
GKS05	m	[kg]	31	33	38	46
GKS06	m	[kg]	50	52	56	65
GKS07	m	[kg]			89	97
GKS09	m	[kg]				153

			100C12 100C32	112C22	132C12 132C22	132C32
GKS06	m	[kg]	73			
GKS07	m	[kg]	105	118	148	
GKS09	m	[kg]	162	174	205	
GKS11	m	[kg]	277	289	319	
GKS14	m	[kg]		486	513	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GKS□□-3M SAR / SBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GKS04	m	[kg]	17	19	24	
GKS05	m	[kg]	27	29	34	42
GKS06	m	[kg]	41	43	48	56
GKS07	m	[kg]			74	82
GKS09	m	[kg]				132

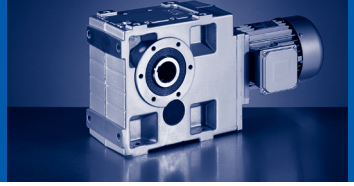
			100C12 100C32	112C22	132C12 132C22	132C32
GKS06	m	[kg]	65			
GKS07	m	[kg]	91	104	133	
GKS09	m	[kg]	141	153	184	
GKS11	m	[kg]	242	254	284	
GKS14	m	[kg]		431	458	

GKS□□-3M SAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32
GKS04	m	[kg]	19	21	26	
GKS05	m	[kg]	31	33	38	46
GKS06	m	[kg]	48	50	55	63
GKS07	m	[kg]			85	93
GKS09	m	[kg]				148

			100C12 100C32	112C22	132C12 132C22	132C32
GKS06	m	[kg]	72			
GKS07	m	[kg]	102	115	144	
GKS09	m	[kg]	157	169	200	
GKS11	m	[kg]	266	278	308	
GKS14	m	[kg]		464	491	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GKS□□-4M HAR / HBR

			063C32 063C42	071C32 071C42	080C32	080C42
GKS05	m	[kg]	27			
GKS06	m	[kg]	44	46	51	
GKS07	m	[kg]	74	76	81	
GKS09	m	[kg]	127	129	134	
GKS11	m	[kg]			242	

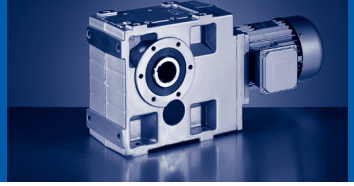
			090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS07	m	[kg]	89				
GKS09	m	[kg]	142	151	164		
GKS11	m	[kg]	250	258	271	301	
GKS14	m	[kg]	435	444	456	487	

GKS□□-4M HAK

			063C32 063C42	071C32 071C42	080C32	080C42
GKS05	m	[kg]	31			
GKS06	m	[kg]	51	53	58	
GKS07	m	[kg]	85	87	92	
GKS09	m	[kg]	143	145	150	
GKS11	m	[kg]			266	

			090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS07	m	[kg]	100				
GKS09	m	[kg]	158	167	180		
GKS11	m	[kg]	274	282	295	325	
GKS14	m	[kg]	468	477	489	520	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GKS□□-4M VAR / VBR

			063C32 063C42	071C32 071C42	080C32	080C42
GKS05	m	[kg]	28			
GKS06	m	[kg]	46	48	53	
GKS07	m	[kg]	79	81	86	
GKS09	m	[kg]	135	137	142	
GKS11	m	[kg]			258	

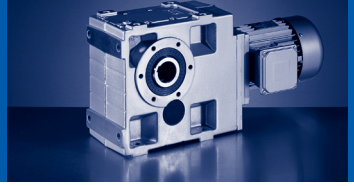
			090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS07	m	[kg]	94				
GKS09	m	[kg]	150	159	172		
GKS11	m	[kg]	266	274	287	317	
GKS14	m	[kg]	468	477	489	520	

GKS□□-4M VAK

			063C32 063C42	071C32 071C42	080C32	080C42
GKS05	m	[kg]	32			
GKS06	m	[kg]	53	55	60	
GKS07	m	[kg]	90	92	97	
GKS09	m	[kg]	151	153	158	
GKS11	m	[kg]			282	

			090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS07	m	[kg]	105				
GKS09	m	[kg]	166	175	188		
GKS11	m	[kg]	290	298	311	341	
GKS14	m	[kg]	501	510	522	553	

- Weights with oil filling for mounting position A; all values are approximate.
  The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GKS□□-4M SAR / SBR

			063C32 063C42	071C32 071C42	080C32	080C42
GKS05	m	[kg]	28			
GKS06	m	[kg]	45	47	52	
GKS07	m	[kg]	75	78	82	
GKS09	m	[kg]	130	132	137	
GKS11	m	[kg]			247	

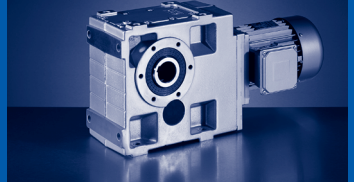
			090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS07	m	[kg]	90				
GKS09	m	[kg]	145	154	167		
GKS11	m	[kg]	255	263	276	306	
GKS14	m	[kg]	446	455	467	498	

GKS□□-4M SAK

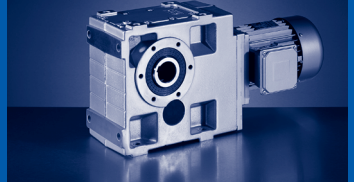
			063C32 063C42	071C32 071C42	080C32	080C42
GKS05	m	[kg]	32			
GKS06	m	[kg]	52	54	59	
GKS07	m	[kg]	86	89	93	
GKS09	m	[kg]	146	148	153	
GKS11	m	[kg]			271	

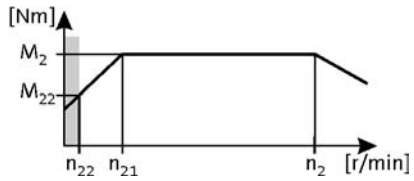
			090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS07	m	[kg]	101				
GKS09	m	[kg]	161	170	183		
GKS11	m	[kg]	279	287	300	330	
GKS14	m	[kg]	479	488	500	531	

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GKS
GKS [kg] - MF□MA





120 Hz: P_N = 0.55 kW

n_{22} / n_2 = 1 ... 24.0

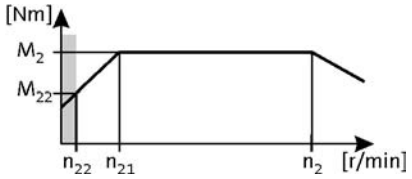
n_1 = 143.3 ... 3440 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	383	9.9	13	4.5	8.991	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
15	61	-	350	11	14	4.5	9.836	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
11	46	-	261	15	19	3.9	13.176	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
10	42	-	240	16	21	4.5	14.333	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
7.0	29	-	167	23	30	4.5	20.588	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
6.4	27	-	153	25	33	4.2	22.522	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
5.7	24	-	137	28	36	3.5	25.088	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
5.0	21	-	120	32	42	3.3	28.727	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
4.5	19	-	108	35	46	2.7	32.000	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
4.1	17	-	98	39	51	2.7	35.191	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
3.7	15	-	88	43	57	2.2	39.200	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
3.2	14	-	78	49	64	2.5	44.240	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
2.8	12	-	68	56	74	2.1	50.943	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
2.5	11	-	60	63	83	2.0	56.976	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
2.2	9.2	-	53	71	94	1.7	64.978	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
2.2	9.0	-	52	73	97	3.0	66.592	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
2.0	8.3	-	48	79	105	1.6	72.210	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
1.9	8.0	-	46	82	109	2.5	75.033	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
1.8	7.5	-	43	87	115	1.4	79.598	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
1.7	7.2	-	42	91	120	2.4	82.833	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
1.6	6.6	-	38	99	131	1.2	90.491	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
1.5	6.4	-	37	102	135	2.0	93.333	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
1.5	6.3	-	36	103	136	1.1	95.238	GKS05-4M□□□063C32	E84AV□□□5514□□0	300
1.4	6.0	-	34	110	145	1.1	100.067	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
1.3	5.6	-	32	118	156	1.8	107.196	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
1.3	5.4	-	31	122	162	1.0	111.467	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
1.3	5.2	-	30	124	164	1.5	114.987	GKS05-4M□□□063C32	E84AV□□□5514□□0	300
1.3	5.3	-	30	122	161	3.2	113.205	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
1.2	5.0	-	29	133	175	1.7	120.784	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
1.1	4.7	-	27	142	187	1.0	128.874	GKS04-3M□□□063C32	E84AV□□□5514□□0	292
1.1	4.7	-	27	137	181	1.5	126.933	GKS05-4M□□□063C32	E84AV□□□5514□□0	300
1.1	4.6	-	26	143	189	1.7	130.097	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
1.0	4.1	-	24	158	209	1.2	146.667	GKS05-4M□□□063C32	E84AV□□□5514□□0	300
1.0	4.1	-	24	161	213	1.4	146.588	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
1.0	4.3	-	24	152	201	2.6	140.816	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
1.0	4.2	-	24	157	207	2.8	142.941	GKS06-3M□□□063C32	E84AV□□□5514□□0	292
0.9	3.9	-	22	168	222	3.0	155.647	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.9	3.7	-	21	175	231	1.2	161.905	GKS05-4M□□□063C32	E84AV□□□5514□□0	300
0.9	3.6	-	21	183	241	1.3	166.276	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
0.9	3.7	-	21	177	234	2.6	161.029	GKS06-3M□□□063C32	E84AV□□□5514□□0	292
0.8	3.4	-	20	188	249	2.1	174.336	GKS06-4M□□□063C32	E84AV□□□5514□□0	300

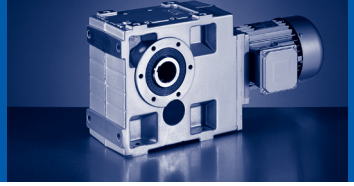
120 Hz: P_N = 0.55 kW

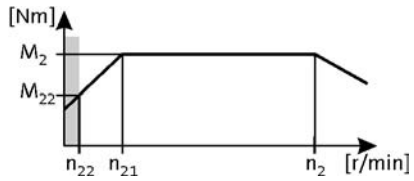
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.3 ... 3440 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.8	3.2	-	19	200	265	1.2	185.547	GKS05-4M□□□063C32	E84AV□□□5514□□0	300
0.8	3.2	-	18	206	272	1.1	187.353	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
0.8	3.2	-	18	209	276	2.4	190.080	GKS06-3M□□□063C32	E84AV□□□5514□□0	292
0.7	2.9	-	17	226	298	1.0	209.067	GKS05-4M□□□063C32	E84AV□□□5514□□0	300
0.7	3.0	-	17	219	289	2.3	202.588	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.7	2.8	-	16	232	306	1.0	211.200	GKS05-3M□□□063C32	E84AV□□□5514□□0	292
0.7	2.8	-	16	235	311	2.0	214.133	GKS06-3M□□□063C32	E84AV□□□5514□□0	292
0.6	2.5	-	15	255	337	0.9	236.667	GKS05-4M□□□063C32	E84AV□□□5514□□0	300
0.6	2.7	-	15	242	320	1.6	224.524	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.6	2.6	-	15	253	335	2.0	230.688	GKS06-3M□□□063C32	E84AV□□□5514□□0	292
0.6	2.7	-	15	241	318	3.2	222.909	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.6	2.4	-	14	272	359	1.9	252.000	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.6	2.3	-	13	285	377	1.6	259.880	GKS06-3M□□□063C32	E84AV□□□5514□□0	292
0.5	2.2	-	13	295	390	2.6	273.199	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.5	2.2	-	12	301	398	1.3	279.286	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.5	2.1	-	12	320	423	1.6	291.600	GKS06-3M□□□063C32	E84AV□□□5514□□0	292
0.4	1.8	-	11	361	476	1.3	328.500	GKS06-3M□□□063C32	E84AV□□□5514□□0	292
0.5	1.9	-	11	342	452	1.5	316.800	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.5	1.9	-	11	346	458	2.8	321.049	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.4	1.7	-	9.6	387	512	2.0	358.829	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.4	1.7	-	9.5	390	515	1.0	361.429	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.4	1.5	-	8.6	431	569	2.2	399.353	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.4	1.5	-	8.4	440	582	1.2	408.000	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.3	1.3	-	7.4	501	662	1.5	464.367	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.3	1.2	-	6.7	558	737	0.9	517.091	GKS06-4M□□□063C32	E84AV□□□5514□□0	300
0.3	1.2	-	6.7	558	737	1.7	516.810	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.3	1.1	-	6.1	608	803	1.3	563.572	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.2	0.9	-	5.4	687	908	1.4	636.581	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.2	0.9	-	5.0	738	975	1.0	683.972	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.2	0.7	-	4.2	889	1174	1.1	823.810	GKS07-4M□□□063C32	E84AV□□□5514□□0	300
0.2	0.7	-	4.2	882	1166	2.5	817.551	GKS09-4M□□□063C32	E84AV□□□5514□□0	300
0.2	0.7	-	3.7	994	1314	2.2	921.367	GKS09-4M□□□063C32	E84AV□□□5514□□0	300
0.1	0.6	-	3.5	1071	1415	2.0	992.209	GKS09-4M□□□063C32	E84AV□□□5514□□0	300
0.1	0.5	-	3.1	1207	1594	1.8	1118.204	GKS09-4M□□□063C32	E84AV□□□5514□□0	300
0.1	0.5	-	2.7	1353	1788	1.6	1254.197	GKS09-4M□□□063C32	E84AV□□□5514□□0	300
0.1	0.4	-	2.4	1525	2015	1.5	1413.461	GKS09-4M□□□063C32	E84AV□□□5514□□0	300





120 Hz: P_N = 0.75 kW

n_{22} / n_2 = 1 ... 24.0

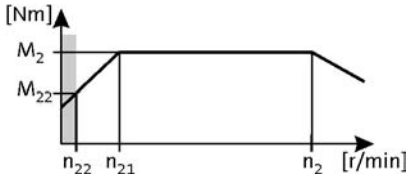
n_1 = 141.7 ... 3400 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	378	14	18	3.3	8.991	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
14	61	-	346	15	20	3.3	9.836	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
11	46	-	258	20	26	2.9	13.176	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
9.9	42	-	237	22	29	3.3	14.333	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
6.9	29	-	165	31	41	3.3	20.588	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
6.3	27	-	151	34	45	3.1	22.522	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
5.7	24	-	136	38	50	2.5	25.088	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
4.9	21	-	118	43	58	2.4	28.727	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
4.4	19	-	106	48	64	2.0	32.000	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
4.3	18	-	104	49	66	2.9	32.744	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
4.0	17	-	97	53	70	2.0	35.191	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
3.8	16	-	92	55	74	2.9	36.894	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
3.6	15	-	87	59	78	1.6	39.200	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
3.4	14	-	81	63	84	3.0	41.765	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
3.2	14	-	77	66	89	1.8	44.240	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
3.0	13	-	72	70	94	2.8	47.059	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
2.8	12	-	67	76	102	1.5	50.943	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
2.5	11	-	60	85	114	1.4	56.976	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
2.2	9.2	-	52	97	130	1.2	64.978	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
2.1	9.0	-	51	100	133	2.1	66.592	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
2.0	8.3	-	47	108	145	1.1	72.210	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
1.9	8.0	-	45	112	150	1.8	75.033	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
1.8	7.5	-	43	119	159	1.0	79.598	GKS04-3M□□□063C42	E84AV□□□7514□□0	292
1.7	7.2	-	41	124	166	1.7	82.833	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
1.5	6.4	-	37	140	186	2.6	93.176	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
1.5	6.4	-	36	140	187	1.5	93.333	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
1.4	5.8	-	33	153	204	2.9	103.721	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
1.3	5.6	-	32	160	215	1.3	107.196	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
1.4	5.7	-	32	157	210	2.6	104.967	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
1.2	5.2	-	30	169	226	1.1	114.987	GKS05-4M□□□063C42	E84AV□□□7514□□0	300
1.3	5.3	-	30	167	223	2.3	113.205	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
1.3	5.3	-	30	169	226	2.5	113.082	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
1.2	5.0	-	28	181	242	1.3	120.784	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
1.1	4.7	-	27	187	250	1.1	126.933	GKS05-4M□□□063C42	E84AV□□□7514□□0	300
1.1	4.7	-	27	191	255	2.4	127.392	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
1.1	4.7	-	27	187	250	2.6	127.059	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
1.1	4.6	-	26	195	260	1.2	130.097	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
1.0	4.3	-	24	207	277	1.9	140.816	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
1.0	4.2	-	24	214	286	2.0	142.941	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
1.0	4.1	-	23	219	293	1.0	146.588	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
0.9	3.9	-	22	229	306	2.2	155.647	GKS06-4M□□□063C42	E84AV□□□7514□□0	300

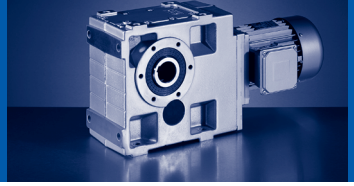
120 Hz: P_N = 0.75 kW

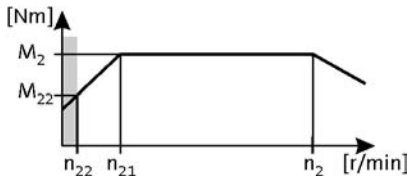
n_{22} / n_2 = 1 ... 24.0

n_1 = 141.7 ... 3400 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.7	-	21	241	322	1.9	161.029	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
0.9	3.6	-	20	249	333	1.0	166.276	GKS05-3M□□□063C42	E84AV□□□7514□□0	292
0.8	3.4	-	20	257	343	1.5	174.336	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
0.8	3.4	-	19	264	353	2.9	179.201	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.8	3.2	-	18	285	380	1.8	190.080	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
0.7	3.0	-	17	298	399	1.7	202.588	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
0.7	2.8	-	16	321	428	1.4	214.133	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
0.6	2.7	-	15	330	442	1.2	224.524	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
0.6	2.6	-	15	345	462	1.5	230.688	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
0.6	2.7	-	15	328	438	2.3	222.909	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.6	2.4	-	14	371	496	1.4	252.000	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
0.6	2.3	-	13	389	520	1.2	259.880	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
0.5	2.2	-	12	411	549	0.9	279.286	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
0.5	2.1	-	12	437	583	1.2	291.600	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
0.5	2.2	-	12	402	537	1.9	273.199	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.5	1.9	-	11	466	623	1.1	316.800	GKS06-4M□□□063C42	E84AV□□□7514□□0	300
0.4	1.9	-	11	472	631	2.0	321.049	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.4	1.8	-	10	492	657	0.9	328.500	GKS06-3M□□□063C42	E84AV□□□7514□□0	292
0.4	1.7	-	9.5	528	706	1.4	358.829	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.4	1.5	-	8.5	588	786	1.6	399.353	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.3	1.3	-	7.3	683	913	1.1	464.367	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.3	1.2	-	6.6	760	1017	1.2	516.810	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.3	1.1	-	6.0	829	1109	0.9	563.572	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.2	0.9	-	5.3	937	1252	1.0	636.581	GKS07-4M□□□063C42	E84AV□□□7514□□0	300
0.2	0.7	-	4.2	1203	1608	1.8	817.551	GKS09-4M□□□063C42	E84AV□□□7514□□0	300
0.2	0.7	-	3.7	1356	1812	1.6	921.367	GKS09-4M□□□063C42	E84AV□□□7514□□0	300
0.1	0.6	-	3.4	1460	1952	1.5	992.209	GKS09-4M□□□063C42	E84AV□□□7514□□0	300
0.1	0.5	-	3.0	1645	2199	1.3	1118.204	GKS09-4M□□□063C42	E84AV□□□7514□□0	300
0.1	0.5	-	2.7	1845	2467	1.2	1254.197	GKS09-4M□□□063C42	E84AV□□□7514□□0	300
0.1	0.4	-	2.4	2080	2780	1.1	1413.461	GKS09-4M□□□063C42	E84AV□□□7514□□0	300





120 Hz: P_N = 1.10 kW

n_{22} / n_2 = 1 ... 24.0

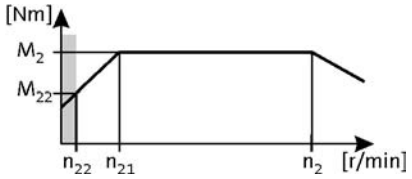
n_1 = 145.4 ... 3490 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	388	20	26	3.0	8.991	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
15	61	-	355	22	28	2.9	9.836	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
11	46	-	265	29	38	3.3	13.176	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
10	42	-	244	32	41	3.0	14.333	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
7.1	29	-	170	45	59	2.3	20.588	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
6.5	27	-	155	49	64	2.1	22.522	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
5.8	24	-	139	55	72	1.8	25.088	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
5.1	21	-	122	63	82	1.7	28.727	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
4.9	20	-	117	66	86	2.9	29.931	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
4.5	19	-	109	70	92	1.4	32.000	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
4.4	18	-	107	72	94	2.7	32.744	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
4.1	17	-	99	77	101	1.4	35.191	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
3.9	16	-	95	81	106	2.2	36.894	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
3.7	15	-	89	86	112	1.1	39.200	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
3.5	14	-	84	92	119	2.1	41.765	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
3.3	14	-	79	97	127	1.3	44.240	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
3.1	13	-	74	103	135	1.9	47.059	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
2.9	12	-	69	112	146	1.1	50.943	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
2.8	12	-	68	112	146	1.9	51.162	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
2.6	11	-	61	125	163	1.0	56.976	GKS04-3M□□□071C32	E84AV□□□1124□□0	292
2.5	10	-	61	127	165	1.6	57.647	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
2.2	9.2	-	54	143	186	2.9	65.207	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
2.2	9.0	-	52	146	190	1.5	66.592	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
2.0	8.3	-	49	158	206	2.9	72.000	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
1.9	8.0	-	47	165	215	1.2	75.033	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
1.8	7.4	-	43	178	232	2.3	81.111	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
1.8	7.2	-	42	182	237	1.2	82.833	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
1.6	6.4	-	38	205	266	2.3	93.176	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
1.6	6.4	-	37	205	267	1.0	93.333	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
1.4	5.8	-	34	224	292	2.0	103.721	GKS06-4M□□□071C32	E84AV□□□1124□□0	300
1.4	5.6	-	33	235	307	0.9	107.196	GKS05-3M□□□071C32	E84AV□□□1124□□0	292
1.4	5.7	-	33	230	300	1.8	104.967	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
1.3	5.3	-	31	244	318	1.6	113.205	GKS06-4M□□□071C32	E84AV□□□1124□□0	300
1.3	5.3	-	31	248	323	2.1	113.082	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
1.3	5.3	-	31	243	316	3.2	112.391	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
1.1	4.7	-	28	274	357	1.8	127.059	GKS06-4M□□□071C32	E84AV□□□1124□□0	300
1.1	4.7	-	27	280	364	1.7	127.392	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
1.0	4.3	-	25	304	396	1.3	140.816	GKS06-4M□□□071C32	E84AV□□□1124□□0	300
1.1	4.4	-	25	297	387	2.6	137.748	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
1.0	4.2	-	24	314	409	1.6	142.941	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
0.9	3.9	-	23	334	435	2.8	154.622	GKS07-4M□□□071C32	E84AV□□□1124□□0	300

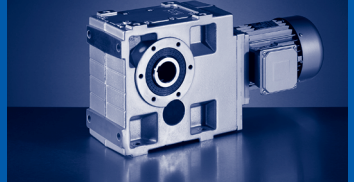
120 Hz: P_N = 1.10 kW

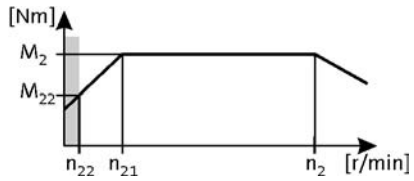
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.4 ... 3490 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.7	-	22	354	460	1.3	161.029	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
0.9	3.9	-	22	336	437	1.5	155.647	GKS06-4M□□□071C32	E84AV□□□1124□□0	300
0.8	3.4	-	20	376	490	1.0	174.336	GKS06-4M□□□071C32	E84AV□□□1124□□0	300
0.8	3.4	-	20	387	504	2.0	179.201	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
0.8	3.2	-	18	417	543	1.2	190.080	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
0.7	3.0	-	17	437	569	1.2	202.588	GKS06-4M□□□071C32	E84AV□□□1124□□0	300
0.7	3.0	-	17	434	566	2.2	201.254	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
0.7	2.8	-	16	470	612	1.0	214.133	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
0.7	2.7	-	16	481	626	1.6	222.909	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
0.6	2.6	-	15	506	660	1.0	230.688	GKS06-3M□□□071C32	E84AV□□□1124□□0	292
0.6	2.4	-	14	544	708	0.9	252.000	GKS06-4M□□□071C32	E84AV□□□1124□□0	300
0.6	2.4	-	14	532	693	1.8	246.659	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
0.5	2.2	-	13	590	768	1.3	273.199	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
0.5	1.9	-	11	693	902	1.4	321.049	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
0.5	1.9	-	11	698	909	3.2	323.365	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.4	1.7	-	9.7	774	1008	1.0	358.829	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
0.4	1.7	-	9.6	786	1024	2.9	364.427	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.4	1.5	-	8.7	862	1122	1.1	399.353	GKS07-4M□□□071C32	E84AV□□□1124□□0	300
0.4	1.5	-	8.7	868	1130	2.5	402.234	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.3	1.3	-	7.7	978	1274	2.3	453.311	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.3	1.2	-	6.7	1123	1463	2.0	520.538	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.3	1.0	-	6.0	1266	1649	1.8	586.638	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.2	1.0	-	5.5	1363	1775	1.6	631.744	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.2	0.8	-	4.9	1536	2001	1.5	711.965	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.2	0.7	-	4.3	1764	2298	1.3	817.551	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.2	0.7	-	3.8	1988	2589	1.1	921.367	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.2	0.6	-	3.5	2141	2788	1.0	992.209	GKS09-4M□□□071C32	E84AV□□□1124□□0	300
0.1	0.5	-	3.1	2413	3143	0.9	1118.204	GKS09-4M□□□071C32	E84AV□□□1124□□0	300





120 Hz: P_N = 1.50 kW

n_{22} / n_2 = 1 ... 24.0

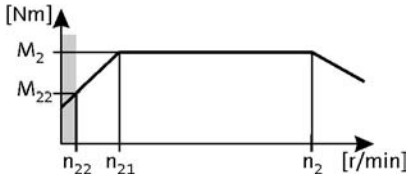
n_1 = 143.8 ... 3450 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	384	27	36	2.2	8.991	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
15	61	-	351	29	39	2.1	9.836	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
11	46	-	262	39	52	2.4	13.176	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
10	42	-	241	43	57	2.2	14.333	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
7.0	29	-	168	62	81	1.7	20.588	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
6.4	27	-	153	67	89	1.6	22.522	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
5.7	24	-	138	75	99	1.3	25.088	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
5.0	21	-	120	86	113	1.2	28.727	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
4.8	20	-	115	90	118	2.1	29.931	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
4.5	19	-	108	96	126	1.0	32.000	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
4.4	18	-	105	98	129	1.9	32.744	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
4.1	17	-	98	105	139	1.0	35.191	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
4.0	17	-	95	109	143	3.1	36.303	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
3.9	16	-	94	110	146	1.6	36.894	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
3.4	14	-	83	125	165	1.5	41.765	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
3.3	14	-	78	132	175	0.9	44.240	GKS04-3M□□□071C42	E84AV□□□1524□□0	292
3.1	13	-	73	141	186	1.4	47.059	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
2.8	12	-	67	153	202	1.4	51.162	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
2.5	10	-	60	173	227	1.2	57.647	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
2.5	10	-	60	173	228	2.6	57.882	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
2.2	9.2	-	53	195	257	2.1	65.207	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
2.2	9.0	-	52	199	263	1.1	66.592	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
2.0	8.3	-	48	216	284	2.1	72.000	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
1.9	8.0	-	46	225	296	0.9	75.033	GKS05-3M□□□071C42	E84AV□□□1524□□0	292
1.8	7.4	-	43	243	320	1.7	81.111	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
1.5	6.4	-	37	279	368	1.6	93.176	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
1.4	5.8	-	34	303	399	2.8	103.039	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
1.4	5.7	-	33	314	414	1.3	104.967	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
1.4	5.8	-	33	305	402	1.5	103.721	GKS06-4M□□□071C42	E84AV□□□1524□□0	300
1.3	5.3	-	31	333	439	1.2	113.205	GKS06-4M□□□071C42	E84AV□□□1524□□0	300
1.3	5.3	-	31	339	446	1.5	113.082	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
1.3	5.3	-	31	331	436	2.3	112.391	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
1.1	4.7	-	27	381	502	1.2	127.392	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
1.1	4.7	-	27	374	493	1.3	127.059	GKS06-4M□□□071C42	E84AV□□□1524□□0	300
1.1	4.8	-	27	371	489	2.5	126.222	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
1.0	4.3	-	25	414	546	0.9	140.816	GKS06-4M□□□071C42	E84AV□□□1524□□0	300
1.0	4.4	-	25	405	534	1.9	137.748	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
1.0	4.2	-	24	428	564	1.2	142.941	GKS06-3M□□□071C42	E84AV□□□1524□□0	292
0.9	3.9	-	22	458	603	1.1	155.647	GKS06-4M□□□071C42	E84AV□□□1524□□0	300
0.9	3.9	-	22	455	599	2.1	154.622	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
0.9	3.7	-	21	482	635	1.0	161.029	GKS06-3M□□□071C42	E84AV□□□1524□□0	292

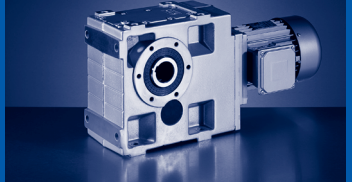
120 Hz: P_N = 1.50 kW

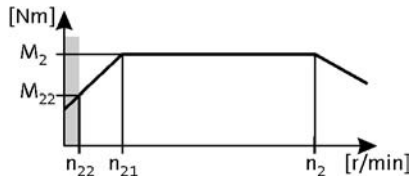
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.8 ... 3450 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.8	3.4	-	19	527	695	1.4	179.201	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
0.7	3.0	-	17	592	780	1.6	201.254	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
0.6	2.7	-	16	656	864	1.2	222.909	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
0.6	2.4	-	14	726	956	1.3	246.659	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
0.5	2.2	-	13	804	1059	0.9	273.199	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
0.5	1.9	-	11	945	1245	1.0	321.049	GKS07-4M□□□071C42	E84AV□□□1524□□0	300
0.4	1.9	-	11	952	1254	2.3	323.365	GKS09-4M□□□071C42	E84AV□□□1524□□0	300
0.4	1.7	-	9.5	1072	1413	2.1	364.427	GKS09-4M□□□071C42	E84AV□□□1524□□0	300
0.4	1.5	-	8.6	1184	1559	1.9	402.234	GKS09-4M□□□071C42	E84AV□□□1524□□0	300
0.3	1.3	-	7.6	1334	1757	1.7	453.311	GKS09-4M□□□071C42	E84AV□□□1524□□0	300
0.3	1.2	-	6.6	1532	2018	1.4	520.538	GKS09-4M□□□071C42	E84AV□□□1524□□0	300
0.3	1.0	-	5.9	1726	2274	1.3	586.638	GKS09-4M□□□071C42	E84AV□□□1524□□0	300
0.2	1.0	-	5.5	1859	2449	1.2	631.744	GKS09-4M□□□071C42	E84AV□□□1524□□0	300
0.2	0.8	-	4.9	2095	2760	1.1	711.965	GKS09-4M□□□071C42	E84AV□□□1524□□0	300
0.2	0.7	-	4.2	2406	3169	0.9	817.551	GKS09-4M□□□071C42	E84AV□□□1524□□0	300





120 Hz: P_N = 2.20 kW

n_{22} / n_2 = 1 ... 24.0

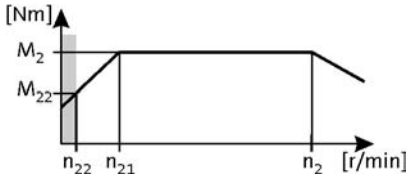
n_1 = 145.8 ... 3500 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	389	38	51	1.5	8.991	GKS04-3M□□□080C32	E84AV□□□2224□□0	292
15	61	-	356	42	56	1.4	9.836	GKS04-3M□□□080C32	E84AV□□□2224□□0	292
13	53	-	308	49	65	3.8	11.382	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
11	46	-	266	56	75	1.7	13.176	GKS05-3M□□□080C32	E84AV□□□2224□□0	292
10	42	-	244	61	82	1.5	14.333	GKS04-3M□□□080C32	E84AV□□□2224□□0	292
8.2	34	-	197	76	102	3.8	17.809	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
7.1	29	-	170	88	117	1.2	20.588	GKS04-3M□□□080C32	E84AV□□□2224□□0	292
6.5	27	-	155	96	128	1.1	22.522	GKS04-3M□□□080C32	E84AV□□□2224□□0	292
5.6	23	-	135	111	148	3.5	26.017	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
5.1	21	-	123	122	162	3.2	28.461	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
4.9	20	-	117	128	171	1.5	29.931	GKS05-3M□□□080C32	E84AV□□□2224□□0	292
4.6	19	-	109	137	183	2.5	32.063	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
4.5	18	-	107	140	187	1.3	32.744	GKS05-3M□□□080C32	E84AV□□□2224□□0	292
4.0	17	-	96	155	207	2.5	36.303	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
4.0	16	-	95	158	210	1.1	36.894	GKS05-3M□□□080C32	E84AV□□□2224□□0	292
3.5	14	-	84	179	238	1.0	41.765	GKS05-3M□□□080C32	E84AV□□□2224□□0	292
3.3	14	-	79	190	254	2.3	44.471	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
3.1	13	-	74	201	268	1.0	47.059	GKS05-3M□□□080C32	E84AV□□□2224□□0	292
2.9	12	-	68	219	292	1.0	51.162	GKS05-3M□□□080C32	E84AV□□□2224□□0	292
2.8	11	-	66	227	303	2.0	53.074	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
2.5	10	-	61	247	330	1.8	57.882	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
2.2	9.2	-	54	279	372	1.4	65.207	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
2.3	9.3	-	54	277	369	2.8	64.790	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
2.1	8.5	-	50	301	402	2.8	70.474	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
2.0	8.3	-	49	308	411	1.5	72.000	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
1.8	7.6	-	44	339	453	2.3	79.407	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
1.8	7.4	-	43	347	463	1.2	81.111	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
1.6	6.4	-	38	398	531	1.1	93.176	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
1.6	6.5	-	38	396	528	2.2	92.563	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
1.4	5.8	-	34	436	581	1.0	103.721	GKS06-4M□□□080C32	E84AV□□□2224□□0	300
1.4	5.8	-	34	446	595	1.8	104.296	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
1.4	5.8	-	34	433	578	1.9	103.039	GKS07-4M□□□080C32	E84AV□□□2224□□0	300
1.4	5.7	-	33	449	599	0.9	104.967	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
1.3	5.3	-	31	483	645	1.0	113.082	GKS06-3M□□□080C32	E84AV□□□2224□□0	292
1.3	5.3	-	31	472	630	1.6	112.391	GKS07-4M□□□080C32	E84AV□□□2224□□0	300
1.3	5.3	-	31	480	641	2.0	112.338	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
1.2	4.7	-	28	534	712	0.9	127.059	GKS06-4M□□□080C32	E84AV□□□2224□□0	300
1.2	4.7	-	28	541	722	1.6	126.578	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
1.2	4.8	-	28	530	708	1.7	126.222	GKS07-4M□□□080C32	E84AV□□□2224□□0	300
1.1	4.4	-	25	579	772	1.3	137.748	GKS07-4M□□□080C32	E84AV□□□2224□□0	300
1.0	4.3	-	25	601	801	1.6	140.548	GKS07-3M□□□080C32	E84AV□□□2224□□0	292

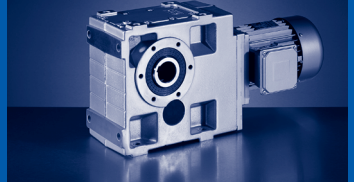
120 Hz: P_N = 2.20 kW

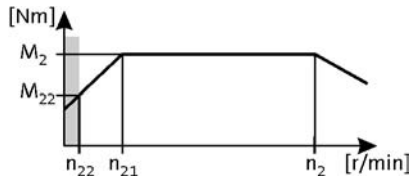
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.8 ... 3500 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.9	-	23	650	867	1.4	154.622	GKS07-4M□□□080C32	E84AV□□□2224□□0	300
0.9	3.8	-	22	677	903	1.3	158.364	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
0.9	3.5	-	21	715	954	3.0	170.188	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.8	3.4	-	20	753	1004	1.0	179.201	GKS07-4M□□□080C32	E84AV□□□2224□□0	300
0.8	3.3	-	19	789	1053	1.2	184.600	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
0.7	2.9	-	17	889	1186	1.0	208.000	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
0.7	3.0	-	17	846	1128	1.1	201.254	GKS07-4M□□□080C32	E84AV□□□2224□□0	300
0.7	2.9	-	17	860	1147	2.5	204.596	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.7	2.7	-	16	958	1277	1.0	224.037	GKS07-3M□□□080C32	E84AV□□□2224□□0	292
0.6	2.6	-	15	969	1292	2.2	230.577	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.6	2.4	-	14	1036	1383	0.9	246.659	GKS07-4M□□□080C32	E84AV□□□2224□□0	300
0.6	2.4	-	14	1044	1393	2.1	248.439	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.5	2.1	-	13	1176	1569	1.9	279.986	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.5	1.9	-	11	1359	1812	1.6	323.365	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.5	1.9	-	11	1357	1810	3.1	322.931	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.4	1.7	-	9.6	1531	2043	1.4	364.427	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.4	1.7	-	9.6	1529	2040	2.8	363.866	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.4	1.5	-	8.8	1663	2218	2.6	395.787	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.4	1.5	-	8.7	1690	2255	1.3	402.234	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.3	1.4	-	7.9	1874	2500	2.3	445.958	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.3	1.3	-	7.7	1905	2541	1.1	453.311	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.3	1.2	-	6.8	2152	2871	2.0	512.196	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.3	1.2	-	6.7	2187	2918	1.0	520.538	GKS09-4M□□□080C32	E84AV□□□2224□□0	300
0.3	1.0	-	6.1	2425	3235	1.8	577.122	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.2	1.0	-	5.6	2612	3484	1.6	621.619	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.2	0.9	-	5.0	2943	3926	1.5	700.416	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.2	0.7	-	4.3	3431	4576	1.2	816.455	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.2	0.7	-	3.8	3865	5156	1.1	919.949	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.2	0.6	-	3.5	4163	5554	1.0	990.879	GKS11-4M□□□080C32	E84AV□□□2224□□0	300
0.1	0.5	-	3.1	4691	6258	0.9	1116.484	GKS11-4M□□□080C32	E84AV□□□2224□□0	300





120 Hz: P_N = 3.00 kW

n_{22} / n_2 = 1 ... 24.0

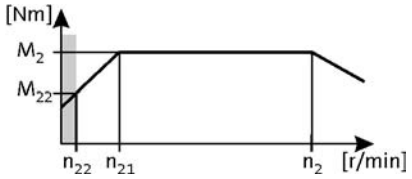
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	100	-	387	53	70	1.1	8.991	GKS04-3M□□□080C42	E84AV□□□3024□□S	292
15	92	-	354	58	77	1.0	9.836	GKS04-3M□□□080C42	E84AV□□□3024□□S	292
13	79	-	306	67	89	2.8	11.382	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
11	68	-	264	77	103	1.2	13.176	GKS05-3M□□□080C42	E84AV□□□3024□□S	292
10	63	-	243	84	112	1.1	14.333	GKS04-3M□□□080C42	E84AV□□□3024□□S	292
8.1	51	-	195	105	139	2.8	17.809	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
5.6	35	-	134	153	204	2.5	26.017	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
5.1	32	-	122	167	223	2.3	28.461	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
4.8	30	-	116	176	234	1.1	29.931	GKS05-3M□□□080C42	E84AV□□□3024□□S	292
4.5	28	-	109	188	251	1.8	32.063	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
4.4	28	-	106	192	256	1.0	32.744	GKS05-3M□□□080C42	E84AV□□□3024□□S	292
4.0	25	-	97	212	282	3.1	36.063	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
4.0	25	-	96	213	284	1.8	36.303	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
3.3	20	-	78	261	348	1.7	44.471	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
2.7	17	-	66	311	415	1.4	53.074	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
2.5	16	-	61	337	450	2.5	57.501	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
2.5	16	-	60	340	453	1.3	57.882	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
2.2	14	-	54	380	507	2.0	64.790	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
2.2	14	-	53	382	510	1.1	65.207	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
2.1	13	-	49	413	551	2.1	70.474	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
2.0	13	-	48	422	563	1.1	72.000	GKS06-3M□□□080C42	E84AV□□□3024□□S	292
1.8	11	-	44	466	621	1.7	79.407	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
1.6	9.7	-	38	543	724	1.6	92.563	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
1.4	8.7	-	34	594	792	1.4	103.039	GKS07-4M□□□080C42	E84AV□□□3024□□S	300
1.4	8.6	-	33	612	816	1.3	104.296	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
1.3	8.0	-	31	648	864	1.2	112.391	GKS07-4M□□□080C42	E84AV□□□3024□□S	300
1.3	8.0	-	31	659	879	1.4	112.338	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
1.2	7.1	-	28	742	990	1.2	126.578	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
1.2	7.1	-	28	728	970	1.3	126.222	GKS07-4M□□□080C42	E84AV□□□3024□□S	300
1.2	7.3	-	28	711	948	3.0	123.275	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
1.1	6.5	-	25	794	1059	0.9	137.748	GKS07-4M□□□080C42	E84AV□□□3024□□S	300
1.0	6.4	-	25	824	1099	1.2	140.548	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
1.0	6.5	-	25	801	1068	2.7	138.929	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.9	5.8	-	23	891	1189	1.0	154.622	GKS07-4M□□□080C42	E84AV□□□3024□□S	300
1.0	6.0	-	23	871	1161	2.5	151.012	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.9	5.7	-	22	929	1238	0.9	158.364	GKS07-3M□□□080C42	E84AV□□□3024□□S	292
0.9	5.3	-	20	981	1308	2.2	170.188	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.7	4.4	-	17	1180	1573	1.8	204.596	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.6	3.9	-	15	1329	1773	1.6	230.577	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.6	3.6	-	14	1432	1910	1.5	248.439	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.5	3.2	-	12	1614	2152	1.4	279.986	GKS09-4M□□□080C42	E84AV□□□3024□□S	300

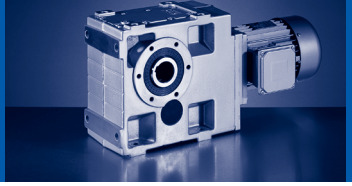
120 Hz: P_N = 3.00 kW

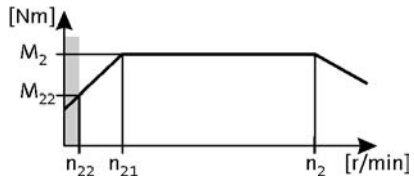
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.5	2.8	-	11	1864	2486	1.2	323.365	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.5	2.8	-	11	1862	2482	2.3	322.931	GKS11-4M□□□080C42	E84AV□□□3024□□S	300
0.4	2.5	-	9.6	2101	2801	1.0	364.427	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.4	2.5	-	9.6	2098	2797	2.1	363.866	GKS11-4M□□□080C42	E84AV□□□3024□□S	300
0.4	2.3	-	8.8	2282	3042	1.9	395.787	GKS11-4M□□□080C42	E84AV□□□3024□□S	300
0.4	2.2	-	8.7	2319	3092	0.9	402.234	GKS09-4M□□□080C42	E84AV□□□3024□□S	300
0.3	2.0	-	7.8	2571	3428	1.7	445.958	GKS11-4M□□□080C42	E84AV□□□3024□□S	300
0.3	1.8	-	6.8	2953	3937	1.4	512.196	GKS11-4M□□□080C42	E84AV□□□3024□□S	300
0.3	1.6	-	6.0	3327	4436	1.3	577.122	GKS11-4M□□□080C42	E84AV□□□3024□□S	300
0.2	1.5	-	5.6	3584	4778	1.2	621.619	GKS11-4M□□□080C42	E84AV□□□3024□□S	300
0.2	1.3	-	5.0	4038	5384	1.1	700.416	GKS11-4M□□□080C42	E84AV□□□3024□□S	300
0.2	1.1	-	4.3	4707	6276	0.9	816.455	GKS11-4M□□□080C42	E84AV□□□3024□□S	300





120 Hz: P_N = 4.00 kW

n_{22} / n_2 = 1 ... 24.0

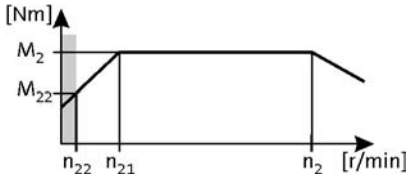
n_1 = 145.0 ... 3480 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
13	53	-	306	83	119	2.1	11.382	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
11	46	-	264	96	137	0.9	13.176	GKS05-3M□□□090C32	E84AV□□□4024□□0	292
8.1	34	-	195	130	186	2.1	17.809	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
5.6	23	-	134	190	271	1.9	26.017	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
5.1	21	-	122	208	297	1.7	28.461	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
4.5	19	-	109	234	334	1.4	32.063	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
4.0	17	-	97	263	376	2.6	36.063	GKS07-3M□□□090C32	E84AV□□□4024□□0	292
4.0	17	-	96	265	379	1.4	36.303	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
3.3	14	-	78	325	464	1.3	44.471	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
2.7	11	-	66	387	553	1.1	53.074	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
2.5	10	-	61	420	600	1.9	57.501	GKS07-3M□□□090C32	E84AV□□□4024□□0	292
2.5	10	-	60	423	604	1.0	57.882	GKS06-3M□□□090C32	E84AV□□□4024□□0	292
2.2	9.3	-	54	473	676	1.5	64.790	GKS07-3M□□□090C32	E84AV□□□4024□□0	292
2.1	8.5	-	49	514	735	1.5	70.474	GKS07-3M□□□090C32	E84AV□□□4024□□0	292
1.8	7.6	-	44	580	828	1.2	79.407	GKS07-3M□□□090C32	E84AV□□□4024□□0	292
1.6	6.5	-	38	676	965	1.2	92.563	GKS07-3M□□□090C32	E84AV□□□4024□□0	292
1.6	6.5	-	38	671	958	2.3	91.860	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
1.4	6.0	-	35	721	1031	2.5	100.551	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
1.4	5.8	-	34	739	1056	1.0	103.039	GKS07-4M□□□090C32	E84AV□□□4024□□0	300
1.4	5.8	-	34	756	1079	2.3	103.524	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
1.4	5.8	-	33	761	1088	1.0	104.296	GKS07-3M□□□090C32	E84AV□□□4024□□0	292
1.3	5.3	-	31	820	1171	1.1	112.338	GKS07-3M□□□090C32	E84AV□□□4024□□0	292
1.3	5.4	-	31	814	1162	2.2	111.484	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
1.3	5.3	-	31	813	1162	2.5	113.320	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
1.2	4.8	-	28	906	1294	1.0	126.222	GKS07-4M□□□090C32	E84AV□□□4024□□0	300
1.2	4.8	-	28	917	1310	2.2	125.641	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
1.2	4.9	-	28	884	1264	2.3	123.275	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
1.0	4.3	-	25	1029	1469	1.7	140.921	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
1.0	4.3	-	25	997	1424	2.0	138.929	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
1.0	4.0	-	23	1083	1548	1.9	151.012	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
0.9	3.8	-	22	1159	1656	1.7	158.816	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
0.9	3.5	-	20	1221	1744	1.6	170.188	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
0.8	3.3	-	19	1328	1898	1.5	182.000	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
0.7	2.9	-	17	1468	2097	1.4	204.596	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
0.7	2.9	-	17	1497	2139	1.4	205.111	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
0.7	2.7	-	16	1612	2303	1.3	220.882	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
0.6	2.6	-	15	1654	2363	1.2	230.577	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
0.6	2.4	-	14	1782	2546	1.1	248.439	GKS09-4M□□□090C32	E84AV□□□4024□□0	300
0.6	2.4	-	14	1817	2596	1.1	248.930	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
0.5	2.2	-	13	2038	2911	1.0	279.205	GKS09-3M□□□090C32	E84AV□□□4024□□0	292
0.5	2.1	-	12	2009	2870	1.0	279.986	GKS09-4M□□□090C32	E84AV□□□4024□□0	300

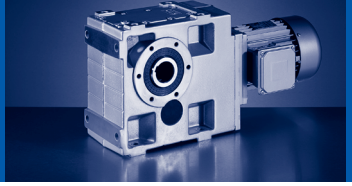
120 Hz: P_N = 4.00 kW

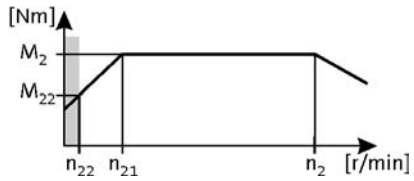
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.5	1.9	-	11	2317	3310	1.7	322.931	GKS11-4M□□□090C32	E84AV□□□4024□□0	300
0.4	1.7	-	9.6	2611	3729	1.5	363.866	GKS11-4M□□□090C32	E84AV□□□4024□□0	300
0.4	1.5	-	8.8	2840	4057	1.4	395.787	GKS11-4M□□□090C32	E84AV□□□4024□□0	300
0.3	1.4	-	7.8	3200	4571	1.3	445.958	GKS11-4M□□□090C32	E84AV□□□4024□□0	300
0.3	1.2	-	6.8	3675	5250	1.1	512.196	GKS11-4M□□□090C32	E84AV□□□4024□□0	300
0.3	1.0	-	6.0	4141	5915	1.0	577.122	GKS11-4M□□□090C32	E84AV□□□4024□□0	300
0.2	0.7	-	4.3	5782	8260	1.3	805.901	GKS14-4M□□□090C32	E84AV□□□4024□□0	300
0.2	0.7	-	3.8	6515	9307	1.2	908.058	GKS14-4M□□□090C32	E84AV□□□4024□□0	300
0.2	0.6	-	3.6	7017	10025	1.1	978.071	GKS14-4M□□□090C32	E84AV□□□4024□□0	300
0.1	0.5	-	3.2	7907	11295	1.0	1102.052	GKS14-4M□□□090C32	E84AV□□□4024□□0	300





120 Hz: P_N = 5.50 kW

n_{22} / n_2 = 1 ... 24.0

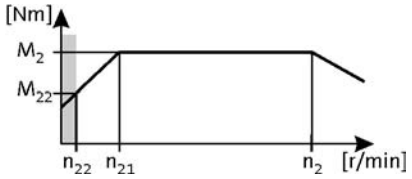
n_1 = 146.9 ... 3525 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
13	53	-	310	113	161	1.5	11.382	GKS06-3M□□□100C12	E84AV□□□5524□□0	292
13	53	-	310	113	161	2.9	11.378	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
8.5	35	-	204	171	244	3.1	17.270	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
8.3	34	-	198	176	252	1.5	17.809	GKS06-3M□□□100C12	E84AV□□□5524□□0	292
5.8	24	-	140	250	357	2.5	25.244	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
5.7	23	-	136	258	368	1.4	26.017	GKS06-3M□□□100C12	E84AV□□□5524□□0	292
5.2	21	-	125	280	400	2.3	28.274	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
5.2	21	-	124	282	403	1.3	28.461	GKS06-3M□□□100C12	E84AV□□□5524□□0	292
4.6	19	-	111	316	451	2.0	31.858	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
4.6	19	-	110	318	454	1.0	32.063	GKS06-3M□□□100C12	E84AV□□□5524□□0	292
4.1	17	-	98	357	510	1.9	36.063	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
4.1	17	-	97	360	514	1.0	36.303	GKS06-3M□□□100C12	E84AV□□□5524□□0	292
3.7	15	-	89	393	561	4.0	39.662	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
3.3	14	-	80	438	625	1.8	44.178	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
3.3	14	-	79	441	629	0.9	44.471	GKS06-3M□□□100C12	E84AV□□□5524□□0	292
2.9	12	-	70	499	713	1.6	50.345	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
2.6	10	-	61	570	814	1.4	57.501	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
2.5	10	-	60	579	827	3.1	58.456	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
2.3	9.3	-	54	642	917	1.1	64.790	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
2.2	9.1	-	54	653	932	2.8	65.879	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
2.1	8.5	-	50	698	998	1.1	70.474	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
2.1	8.5	-	50	703	1005	2.6	70.982	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
1.9	7.6	-	44	787	1124	0.9	79.407	GKS07-3M□□□100C12	E84AV□□□5524□□0	292
1.8	7.5	-	44	793	1132	2.3	79.996	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
1.6	6.5	-	38	910	1300	2.0	91.860	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
1.6	6.5	-	38	909	1298	2.9	91.737	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
1.5	6.0	-	35	979	1399	1.9	100.551	GKS09-4M□□□100C12	E84AV□□□5524□□0	300
1.4	5.8	-	34	1026	1465	1.8	103.524	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
1.4	5.8	-	34	1024	1463	2.9	103.365	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
1.3	5.4	-	32	1105	1578	1.8	111.484	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
1.3	5.4	-	32	1103	1576	2.7	111.335	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
1.3	5.3	-	31	1104	1577	1.8	113.320	GKS09-4M□□□100C12	E84AV□□□5524□□0	300
1.2	4.9	-	29	1201	1715	1.7	123.275	GKS09-4M□□□100C12	E84AV□□□5524□□0	300
1.2	4.8	-	28	1245	1778	1.6	125.641	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
1.2	4.8	-	28	1243	1776	2.7	125.448	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
1.2	4.8	-	28	1218	1741	3.2	125.095	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
1.0	4.3	-	25	1396	1995	1.4	140.921	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
1.1	4.3	-	25	1353	1933	1.5	138.929	GKS09-4M□□□100C12	E84AV□□□5524□□0	300
1.0	4.3	-	25	1394	1992	2.2	140.732	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
1.0	4.3	-	25	1373	1961	2.9	140.952	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
1.0	4.0	-	23	1471	2101	1.4	151.012	GKS09-4M□□□100C12	E84AV□□□5524□□0	300

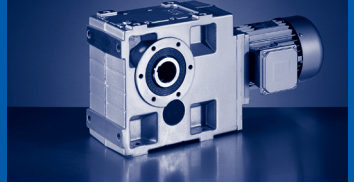
120 Hz: P_N = 5.50 kW

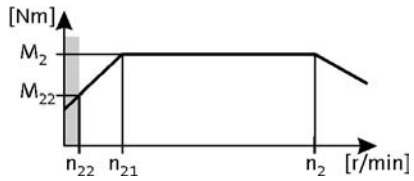
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.9 ... 3525 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.0	3.9	-	23	1492	2132	2.6	153.242	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.9	3.8	-	22	1574	2248	1.3	158.816	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
0.9	3.8	-	22	1571	2244	2.2	158.571	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
0.9	3.5	-	21	1658	2368	1.2	170.188	GKS09-4M□□□100C12	E84AV□□□5524□□0	300
0.9	3.5	-	20	1682	2402	2.3	172.667	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.8	3.3	-	19	1803	2576	1.1	182.000	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
0.8	3.2	-	19	1849	2641	2.1	186.572	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
0.7	3.0	-	18	1966	2809	2.0	201.890	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.7	2.9	-	17	2032	2903	1.0	205.111	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
0.7	2.9	-	17	1993	2847	1.0	204.596	GKS09-4M□□□100C12	E84AV□□□5524□□0	300
0.7	2.9	-	17	2083	2975	1.9	210.222	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
0.7	2.7	-	16	2188	3126	0.9	220.882	GKS09-3M□□□100C12	E84AV□□□5524□□0	292
0.7	2.7	-	16	2243	3205	1.8	226.431	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
0.7	2.6	-	16	2216	3165	1.8	227.481	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.6	2.6	-	15	2246	3208	0.9	230.577	GKS09-4M□□□100C12	E84AV□□□5524□□0	300
0.6	2.4	-	14	2528	3611	1.5	255.133	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
0.6	2.4	-	14	2416	3452	1.6	248.106	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.5	2.2	-	13	2723	3890	1.5	279.556	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.5	2.1	-	12	2836	4051	1.4	286.219	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
0.5	1.9	-	11	3195	4565	1.2	322.500	GKS11-3M□□□100C12	E84AV□□□5524□□0	292
0.5	1.9	-	11	3145	4493	1.3	322.931	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.5	1.9	-	11	3133	4476	2.4	321.729	GKS14-4M□□□100C12	E84AV□□□5524□□0	300
0.4	1.7	-	9.7	3544	5063	1.1	363.866	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.4	1.7	-	9.7	3531	5044	2.2	362.512	GKS14-4M□□□100C12	E84AV□□□5524□□0	300
0.4	1.5	-	9.0	3805	5435	2.0	390.671	GKS14-4M□□□100C12	E84AV□□□5524□□0	300
0.4	1.5	-	8.9	3855	5507	1.0	395.787	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.3	1.4	-	8.0	4287	6124	1.8	440.193	GKS14-4M□□□100C12	E84AV□□□5524□□0	300
0.3	1.4	-	7.9	4343	6205	0.9	445.958	GKS11-4M□□□100C12	E84AV□□□5524□□0	300
0.3	1.2	-	6.9	4997	7139	1.5	513.121	GKS14-4M□□□100C12	E84AV□□□5524□□0	300
0.3	1.0	-	6.1	5631	8044	1.4	578.164	GKS14-4M□□□100C12	E84AV□□□5524□□0	300
0.2	1.0	-	5.7	6065	8664	1.3	622.742	GKS14-4M□□□100C12	E84AV□□□5524□□0	300
0.2	0.9	-	5.0	6834	9763	1.1	701.681	GKS14-4M□□□100C12	E84AV□□□5524□□0	300
0.2	0.7	-	4.4	7849	11213	1.0	805.901	GKS14-4M□□□100C12	E84AV□□□5524□□0	300





120 Hz: P_N = 7.50 kW

n_{22} / n_2 = 1 ... 24.0

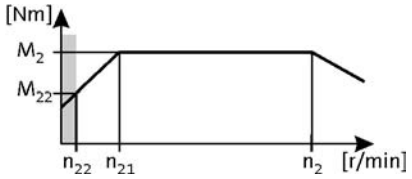
n_1 = 146.5 ... 3515 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
13	53	-	309	154	220	1.1	11.382	GKS06-3M□□□100C32	E84AV□□□7524□□0	292
13	53	-	309	154	220	2.1	11.378	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
8.5	35	-	204	234	334	2.2	17.270	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
8.2	34	-	197	241	345	1.1	17.809	GKS06-3M□□□100C32	E84AV□□□7524□□0	292
5.8	24	-	139	342	489	1.8	25.244	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
5.6	23	-	135	353	504	1.0	26.017	GKS06-3M□□□100C32	E84AV□□□7524□□0	292
5.2	21	-	124	386	551	0.9	28.461	GKS06-3M□□□100C32	E84AV□□□7524□□0	292
5.2	21	-	124	383	547	1.7	28.274	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
4.6	19	-	110	432	617	1.4	31.858	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
4.2	17	-	100	477	681	3.1	35.193	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
4.1	17	-	98	489	698	1.4	36.063	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
3.7	15	-	89	537	768	2.9	39.662	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
3.3	14	-	80	599	855	1.3	44.178	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
2.9	12	-	70	682	975	1.1	50.345	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
2.6	10	-	61	779	1113	1.0	57.501	GKS07-3M□□□100C32	E84AV□□□7524□□0	292
2.5	10	-	60	792	1131	2.3	58.456	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
2.2	9.1	-	53	893	1275	2.0	65.879	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
2.1	8.5	-	50	962	1374	1.9	70.982	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
1.8	7.5	-	44	1084	1548	1.7	79.996	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
1.6	6.5	-	38	1245	1778	1.5	91.860	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
1.6	6.5	-	38	1243	1776	2.1	91.737	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
1.5	6.0	-	35	1339	1913	1.4	100.551	GKS09-4M□□□100C32	E84AV□□□7524□□0	300
1.4	5.8	-	34	1403	2004	1.3	103.524	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
1.4	5.8	-	34	1401	2001	2.1	103.365	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
1.4	5.9	-	34	1360	1943	2.5	102.119	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
1.3	5.4	-	32	1511	2158	1.3	111.484	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
1.3	5.4	-	32	1508	2155	2.0	111.335	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
1.3	5.3	-	31	1509	2156	1.3	113.320	GKS09-4M□□□100C32	E84AV□□□7524□□0	300
1.3	5.2	-	31	1533	2189	2.5	115.063	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
1.2	4.9	-	29	1642	2346	1.2	123.275	GKS09-4M□□□100C32	E84AV□□□7524□□0	300
1.2	4.8	-	28	1702	2432	1.2	125.641	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
1.2	4.8	-	28	1700	2428	2.0	125.448	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
1.2	4.8	-	28	1666	2380	2.3	125.095	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
1.0	4.3	-	25	1909	2728	1.0	140.921	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
1.1	4.3	-	25	1850	2643	1.1	138.929	GKS09-4M□□□100C32	E84AV□□□7524□□0	300
1.0	4.3	-	25	1907	2724	1.6	140.732	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
1.0	4.3	-	25	1877	2682	2.1	140.952	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
1.0	4.0	-	23	2011	2873	1.0	151.012	GKS09-4M□□□100C32	E84AV□□□7524□□0	300
1.0	3.9	-	23	2041	2916	1.9	153.242	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
0.9	3.8	-	22	2152	3074	1.0	158.816	GKS09-3M□□□100C32	E84AV□□□7524□□0	292
0.9	3.8	-	22	2148	3069	1.6	158.571	GKS11-3M□□□100C32	E84AV□□□7524□□0	292

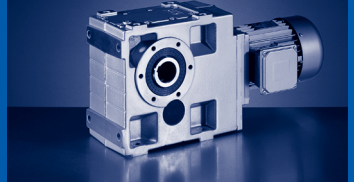
120 Hz: P_N = 7.50 kW

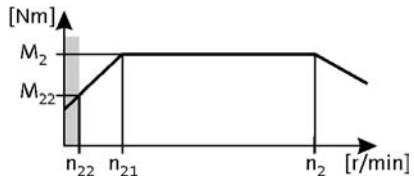
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.5 ... 3515 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.5	-	20	2300	3285	1.7	172.667	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
0.8	3.4	-	20	2372	3388	3.2	178.072	GKS14-4M□□□100C32	E84AV□□□7524□□0	300
0.8	3.2	-	19	2528	3611	1.6	186.572	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
0.7	2.9	-	17	2848	4069	1.4	210.222	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
0.7	3.0	-	17	2689	3841	1.5	201.890	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
0.7	2.7	-	16	3068	4383	1.3	226.431	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
0.6	2.6	-	16	3030	4328	1.3	227.481	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
0.6	2.4	-	14	3457	4938	1.1	255.133	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
0.6	2.4	-	14	3304	4721	1.2	248.106	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
0.5	2.2	-	13	3723	5319	1.1	279.556	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
0.5	2.1	-	12	3878	5540	1.0	286.219	GKS11-3M□□□100C32	E84AV□□□7524□□0	292
0.5	1.9	-	11	4301	6144	0.9	322.931	GKS11-4M□□□100C32	E84AV□□□7524□□0	300
0.5	1.9	-	11	4285	6121	1.8	321.729	GKS14-4M□□□100C32	E84AV□□□7524□□0	300
0.4	1.7	-	9.7	4828	6897	1.6	362.512	GKS14-4M□□□100C32	E84AV□□□7524□□0	300
0.4	1.5	-	9.0	5203	7433	1.5	390.671	GKS14-4M□□□100C32	E84AV□□□7524□□0	300
0.3	1.4	-	8.0	5863	8375	1.3	440.193	GKS14-4M□□□100C32	E84AV□□□7524□□0	300
0.3	1.2	-	6.9	6834	9763	1.1	513.121	GKS14-4M□□□100C32	E84AV□□□7524□□0	300
0.3	1.0	-	6.1	7700	11000	1.0	578.164	GKS14-4M□□□100C32	E84AV□□□7524□□0	300
0.2	1.0	-	5.6	8294	11848	0.9	622.742	GKS14-4M□□□100C32	E84AV□□□7524□□0	300





120 Hz: P_N = 11.00 kW

n_{22} / n_2 = 1 ... 24.0

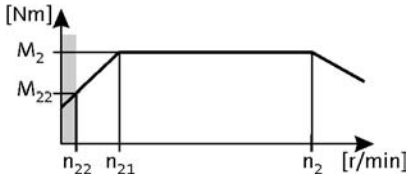
n_1 = 147.1 ... 3530 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
13	53	-	310	206	322	1.4	11.378	GKS07-3M□□□112C22	E84AV□□□1134□□0	292
9.1	37	-	219	292	456	3.0	16.122	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
8.5	35	-	204	312	488	1.5	17.270	GKS07-3M□□□112C22	E84AV□□□1134□□0	292
8.4	34	-	201	317	496	3.0	17.536	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
5.8	24	-	140	457	714	1.2	25.244	GKS07-3M□□□112C22	E84AV□□□1134□□0	292
5.7	23	-	138	464	725	3.0	25.649	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
5.2	21	-	125	512	799	1.1	28.274	GKS07-3M□□□112C22	E84AV□□□1134□□0	292
5.0	21	-	121	529	826	2.7	29.228	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
4.6	19	-	111	576	901	1.0	31.858	GKS07-3M□□□112C22	E84AV□□□1134□□0	292
4.5	18	-	107	596	931	2.4	32.940	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
4.2	17	-	100	637	995	2.3	35.193	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
4.1	17	-	99	647	1010	3.1	35.741	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
4.1	17	-	98	652	1019	1.0	36.063	GKS07-3M□□□112C22	E84AV□□□1134□□0	292
3.7	15	-	89	718	1121	2.0	39.662	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
3.7	15	-	88	729	1138	3.1	40.272	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
3.4	14	-	82	781	1220	2.1	43.146	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
3.0	12	-	73	880	1375	1.9	48.625	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
2.6	10	-	61	1044	1631	2.5	57.683	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
2.5	10	-	60	1058	1652	1.6	58.456	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
2.2	9.1	-	54	1192	1862	1.4	65.879	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
2.3	9.2	-	54	1176	1837	2.5	64.995	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
2.1	8.5	-	50	1284	2007	1.3	70.982	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
2.1	8.5	-	50	1282	2004	2.1	70.887	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
1.8	7.5	-	44	1447	2261	1.2	79.996	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
1.8	7.5	-	44	1445	2258	2.1	79.873	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
1.6	6.5	-	39	1660	2593	1.6	91.737	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
1.6	6.6	-	39	1638	2560	2.0	90.551	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
1.6	6.5	-	38	1662	2597	1.0	91.860	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
1.5	6.2	-	36	1733	2708	2.9	97.467	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
1.5	6.0	-	35	1788	2794	0.9	100.551	GKS09-4M□□□112C22	E84AV□□□1134□□0	300
1.4	5.9	-	35	1816	2838	1.7	102.119	GKS11-4M□□□112C22	E84AV□□□1134□□0	300
1.4	5.9	-	35	1846	2884	2.0	102.029	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
1.4	5.8	-	34	1870	2922	1.6	103.365	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
1.3	5.4	-	32	2017	3151	0.9	111.484	GKS09-3M□□□112C22	E84AV□□□1134□□0	292
1.3	5.4	-	32	2014	3147	1.5	111.335	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
1.3	5.5	-	32	1988	3106	1.7	109.896	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
1.3	5.5	-	32	1953	3052	2.9	109.822	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
1.3	5.3	-	31	2015	3149	0.9	113.320	GKS09-4M□□□112C22	E84AV□□□1134□□0	300
1.3	5.2	-	31	2046	3197	1.7	115.063	GKS11-4M□□□112C22	E84AV□□□1134□□0	300
1.2	5.0	-	30	2125	3320	3.1	119.493	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
1.2	4.9	-	29	2240	3500	1.9	123.826	GKS14-3M□□□112C22	E84AV□□□1134□□0	292

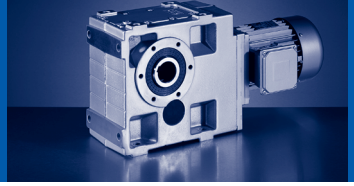
120 Hz: P_N = 11.00 kW

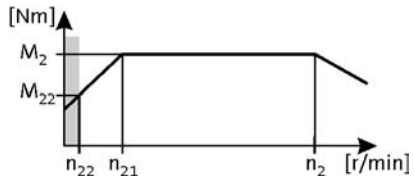
n_{22} / n_2 = 1 ... 24.0

n_1 = 147.1 ... 3530 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.2	4.8	-	28	2270	3546	1.5	125.448	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
1.2	4.8	-	28	2225	3476	1.6	125.095	GKS11-4M□□□112C22	E84AV□□□1134□□0	300
1.1	4.5	-	26	2394	3741	2.9	134.640	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
1.1	4.3	-	25	2546	3978	1.2	140.732	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
1.0	4.3	-	25	2507	3917	1.4	140.952	GKS11-4M□□□112C22	E84AV□□□1134□□0	300
1.1	4.3	-	25	2513	3927	1.5	138.913	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
1.0	3.9	-	23	2725	4258	1.3	153.242	GKS11-4M□□□112C22	E84AV□□□1134□□0	300
0.9	3.8	-	23	2832	4424	1.5	156.522	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
0.9	3.8	-	22	2869	4482	1.2	158.571	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
0.9	3.8	-	22	2811	4391	2.5	158.039	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
0.9	3.5	-	20	3071	4798	1.2	172.667	GKS11-4M□□□112C22	E84AV□□□1134□□0	300
0.8	3.4	-	20	3167	4948	2.2	178.072	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
0.8	3.2	-	19	3375	5274	1.1	186.572	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
0.8	3.2	-	19	3375	5274	2.1	186.572	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
0.7	3.0	-	18	3590	5610	1.0	201.890	GKS11-4M□□□112C22	E84AV□□□1134□□0	300
0.8	3.1	-	18	3446	5384	2.0	193.754	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
0.7	2.9	-	17	3803	5942	0.9	210.222	GKS11-3M□□□112C22	E84AV□□□1134□□0	292
0.7	2.9	-	17	3803	5942	1.8	210.222	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
0.7	2.7	-	16	4096	6401	1.7	226.431	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
0.7	2.8	-	16	3882	6066	1.8	218.315	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
0.6	2.5	-	15	4223	6598	1.6	237.467	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
0.6	2.4	-	14	4616	7212	1.5	255.133	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
0.6	2.2	-	13	4758	7435	1.5	267.568	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
0.5	2.1	-	12	5178	8091	1.4	286.219	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
0.5	1.9	-	11	5722	8940	1.2	321.729	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
0.5	1.9	-	11	5834	9116	1.2	322.500	GKS14-3M□□□112C22	E84AV□□□1134□□0	292
0.4	1.7	-	9.7	6447	10073	1.1	362.512	GKS14-4M□□□112C22	E84AV□□□1134□□0	300
0.4	1.5	-	9.0	6948	10855	1.0	390.671	GKS14-4M□□□112C22	E84AV□□□1134□□0	300





120 Hz: P_N = 15.00 kW

n_{22} / n_2 = 1 ... 24.0

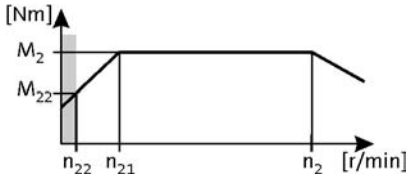
n_1 = 148.3 ... 3560 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
13	53	-	313	278	435	1.1	11.378	GKS07-3M□□□132C12	E84AV□□□1534□□0	292
9.2	37	-	221	394	616	2.2	16.122	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
8.6	35	-	206	422	660	1.1	17.270	GKS07-3M□□□132C12	E84AV□□□1534□□0	292
8.5	34	-	203	429	670	2.2	17.536	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
5.9	24	-	141	618	965	0.9	25.244	GKS07-3M□□□132C12	E84AV□□□1534□□0	292
5.8	23	-	139	627	980	2.2	25.649	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
5.1	21	-	122	715	1117	2.0	29.228	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
4.5	18	-	108	806	1259	1.8	32.940	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
4.2	17	-	101	861	1345	1.7	35.193	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
4.2	17	-	100	874	1366	3.1	35.741	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
3.7	15	-	90	970	1516	1.5	39.662	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
3.7	15	-	88	985	1539	2.9	40.272	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
3.4	14	-	83	1055	1649	1.6	43.146	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
3.4	14	-	81	1071	1674	3.0	43.783	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
3.1	12	-	73	1189	1859	1.4	48.625	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
3.0	12	-	72	1207	1886	2.7	49.333	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
2.6	10	-	62	1411	2205	2.3	57.683	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
2.5	10	-	61	1430	2234	1.2	58.456	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
2.3	9.2	-	55	1590	2484	2.1	64.995	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
2.3	9.1	-	54	1612	2518	1.0	65.879	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
2.1	8.5	-	50	1736	2713	1.0	70.982	GKS09-3M□□□132C12	E84AV□□□1534□□0	292
2.1	8.5	-	50	1734	2709	1.9	70.887	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
1.9	7.5	-	45	1954	3053	1.7	79.873	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
1.6	6.5	-	39	2244	3506	1.5	91.737	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
1.6	6.6	-	39	2215	3461	2.8	90.551	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
1.5	6.2	-	37	2344	3662	2.3	97.467	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
1.5	5.9	-	35	2456	3837	1.3	102.119	GKS11-4M□□□132C12	E84AV□□□1534□□0	300
1.5	5.9	-	35	2496	3900	2.5	102.029	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
1.4	5.8	-	34	2529	3951	1.3	103.365	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
1.3	5.4	-	32	2723	4255	1.3	111.335	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
1.4	5.5	-	32	2641	4126	2.3	109.822	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
1.4	5.5	-	32	2688	4200	2.4	109.896	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
1.3	5.2	-	31	2767	4323	1.3	115.063	GKS11-4M□□□132C12	E84AV□□□1534□□0	300
1.2	5.0	-	30	2873	4490	2.3	119.493	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
1.2	4.8	-	29	3008	4700	1.2	125.095	GKS11-4M□□□132C12	E84AV□□□1534□□0	300
1.2	4.9	-	29	3029	4733	2.3	123.826	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
1.2	4.8	-	28	3069	4795	1.2	125.448	GKS11-3M□□□132C12	E84AV□□□1534□□0	292
1.1	4.3	-	26	3398	5309	2.1	138.913	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
1.1	4.5	-	26	3238	5059	2.1	134.640	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
1.1	4.3	-	25	3389	5296	1.1	140.952	GKS11-4M□□□132C12	E84AV□□□1534□□0	300
1.0	3.9	-	23	3685	5758	1.0	153.242	GKS11-4M□□□132C12	E84AV□□□1534□□0	300

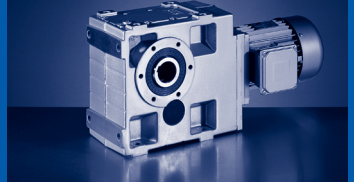
120 Hz: P_N = 15.00 kW

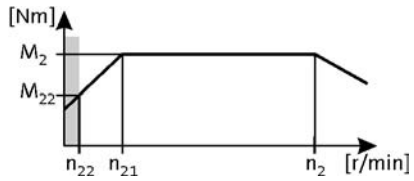
n_{22} / n_2 = 1 ... 24.0

n_1 = 148.3 ... 3560 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.0	3.8	-	23	3829	5983	1.8	156.522	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
0.9	3.8	-	23	3800	5938	1.8	158.039	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
0.8	3.4	-	20	4282	6690	1.6	178.072	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
0.8	3.2	-	19	4564	7131	1.5	186.572	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
0.8	3.1	-	18	4659	7280	1.5	193.754	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
0.7	2.9	-	17	5142	8035	1.4	210.222	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
0.7	2.7	-	16	5539	8655	1.3	226.431	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
0.7	2.8	-	16	5250	8202	1.3	218.315	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
0.6	2.5	-	15	5710	8922	1.2	237.467	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
0.6	2.4	-	14	6241	9752	1.1	255.133	GKS14-3M□□□132C12	E84AV□□□1534□□0	292
0.6	2.2	-	13	6434	10053	1.1	267.568	GKS14-4M□□□132C12	E84AV□□□1534□□0	300
0.5	2.1	-	12	7001	10940	1.0	286.219	GKS14-3M□□□132C12	E84AV□□□1534□□0	292





120 Hz: P_N = 18.50 kW

n_{22} / n_2 = 1 ... 24.0

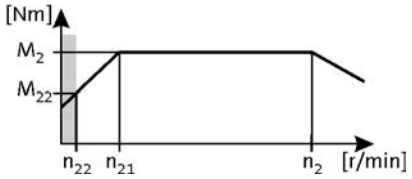
n_1 = 148.3 ... 3560 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
9.2	37	-	221	486	760	1.8	16.122	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
8.6	35	-	206	521	814	0.9	17.270	GKS07-3M□□□132C22	E84AV□□□1834□□0	292
8.5	34	-	203	529	827	1.8	17.536	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
5.8	23	-	139	774	1209	1.8	25.649	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
5.3	21	-	127	845	1321	2.9	28.021	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
5.1	21	-	122	882	1378	1.6	29.228	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
4.7	19	-	113	953	1488	2.8	31.573	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
4.5	18	-	108	994	1553	1.4	32.940	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
4.2	17	-	101	1062	1659	1.4	35.193	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
4.2	17	-	100	1078	1685	2.5	35.741	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
3.7	15	-	90	1197	1870	1.2	39.662	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
3.7	15	-	88	1215	1898	2.3	40.272	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
3.4	14	-	83	1302	2034	1.3	43.146	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
3.4	14	-	81	1321	2064	2.4	43.783	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
3.1	12	-	73	1467	2292	1.1	48.625	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
3.0	12	-	72	1488	2326	2.2	49.333	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
2.6	10	-	62	1740	2719	1.9	57.683	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
2.5	10	-	61	1764	2756	0.9	58.456	GKS09-3M□□□132C22	E84AV□□□1834□□0	292
2.3	9.2	-	55	1961	3064	1.7	64.995	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
2.2	8.7	-	52	2080	3250	3.0	68.942	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
2.1	8.5	-	50	2139	3342	1.5	70.887	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
1.9	7.7	-	46	2344	3662	2.7	77.681	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
1.9	7.5	-	45	2410	3765	1.4	79.873	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
1.6	6.5	-	39	2768	4324	1.2	91.737	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
1.6	6.6	-	39	2732	4269	2.3	90.551	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
1.5	6.2	-	37	2891	4516	1.9	97.467	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
1.5	5.9	-	35	3029	4732	1.0	102.119	GKS11-4M□□□132C22	E84AV□□□1834□□0	300
1.5	5.9	-	35	3078	4810	2.1	102.029	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
1.4	5.8	-	34	3119	4873	1.1	103.365	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
1.3	5.4	-	32	3359	5248	1.1	111.335	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
1.4	5.5	-	32	3257	5089	1.8	109.822	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
1.4	5.5	-	32	3316	5180	1.9	109.896	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
1.3	5.2	-	31	3412	5332	1.0	115.063	GKS11-4M□□□132C22	E84AV□□□1834□□0	300
1.2	5.0	-	30	3544	5537	1.8	119.493	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
1.2	4.8	-	29	3710	5797	0.9	125.095	GKS11-4M□□□132C22	E84AV□□□1834□□0	300
1.2	4.9	-	29	3736	5837	1.9	123.826	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
1.2	4.8	-	28	3785	5914	1.0	125.448	GKS11-3M□□□132C22	E84AV□□□1834□□0	292
1.1	4.5	-	26	3993	6239	1.7	134.640	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
1.1	4.3	-	26	4191	6548	1.7	138.913	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
0.9	3.8	-	23	4687	7323	1.5	158.039	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
1.0	3.8	-	23	4722	7378	1.5	156.522	GKS14-3M□□□132C22	E84AV□□□1834□□0	292

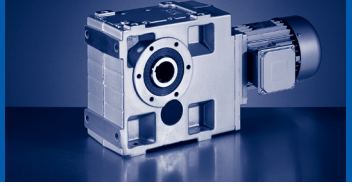
120 Hz: P_N = 18.50 kW

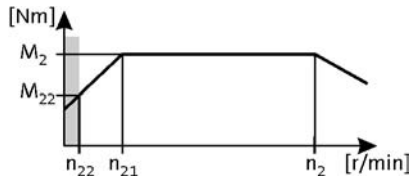
n_{22} / n_2 = 1 ... 24.0

n_1 = 148.3 ... 3560 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.8	3.4	-	20	5281	8252	1.3	178.072	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
0.8	3.2	-	19	5629	8795	1.2	186.572	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
0.8	3.1	-	18	5746	8978	1.2	193.754	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
0.7	2.9	-	17	6342	9910	1.1	210.222	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
0.7	2.7	-	16	6831	10674	1.0	226.431	GKS14-3M□□□132C22	E84AV□□□1834□□0	292
0.7	2.8	-	16	6474	10116	1.1	218.315	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
0.6	2.5	-	15	7042	11004	1.0	237.467	GKS14-4M□□□132C22	E84AV□□□1834□□0	300
0.6	2.4	-	14	7697	12027	0.9	255.133	GKS14-3M□□□132C22	E84AV□□□1834□□0	292





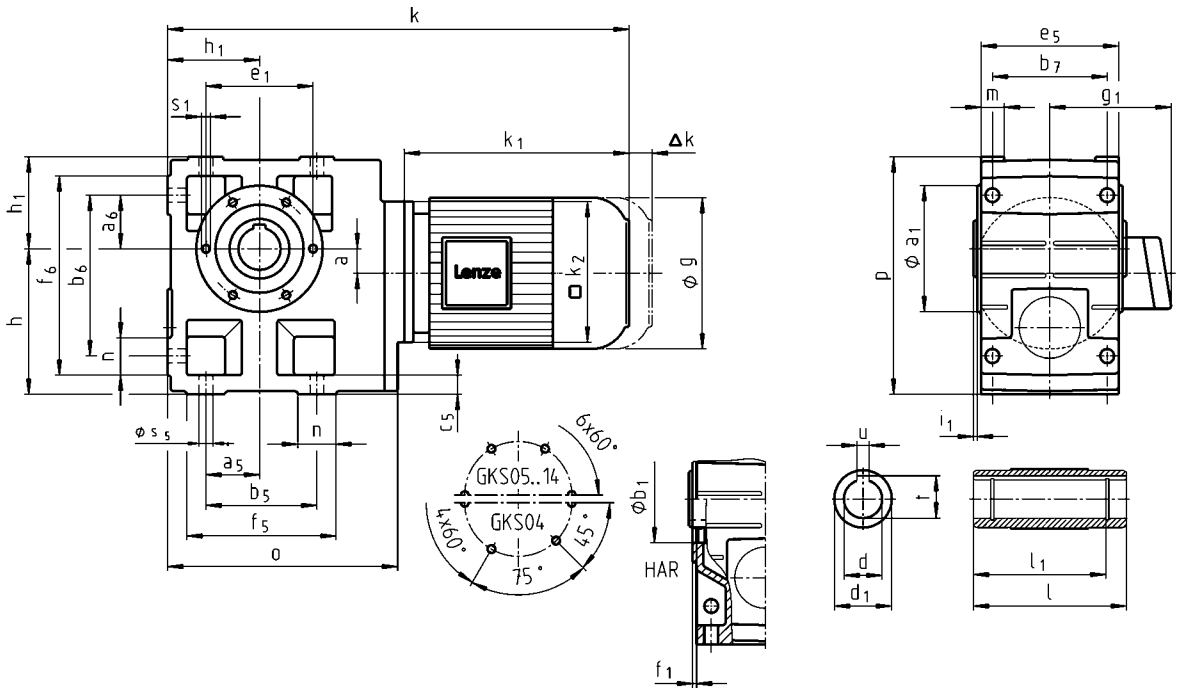
120 Hz: P_N = 22.00 kW

n_{22} / n_2 = 1 ... 24.0

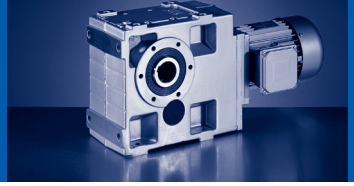
n_1 = 147.9 ... 3550 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
9.2	37	-	220	580	906	1.5	16.122	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
8.4	34	-	202	631	986	1.5	17.536	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
5.8	23	-	138	923	1442	1.5	25.649	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
5.3	21	-	127	1008	1575	2.5	28.021	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
5.1	21	-	122	1052	1643	1.3	29.228	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
4.7	19	-	112	1136	1775	2.3	31.573	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
4.5	18	-	108	1185	1852	1.2	32.940	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
4.2	17	-	101	1266	1978	1.1	35.193	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
4.1	17	-	99	1286	2009	2.1	35.741	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
3.7	15	-	90	1427	2230	1.0	39.662	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
3.7	15	-	88	1449	2264	1.9	40.272	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
3.4	14	-	82	1552	2426	1.1	43.146	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
3.4	14	-	81	1575	2461	2.0	43.783	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
3.0	12	-	73	1749	2734	0.9	48.625	GKS09-3M□□□132C32	E84AV□□□2234□□0	292
3.0	12	-	72	1775	2773	1.8	49.333	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
2.6	11	-	63	2024	3162	2.9	56.251	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
2.6	10	-	62	2075	3243	1.6	57.683	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
2.3	9.5	-	56	2280	3563	2.7	63.382	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
2.3	9.2	-	55	2338	3654	1.4	64.995	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
2.2	8.7	-	52	2480	3876	2.5	68.942	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
2.1	8.5	-	50	2550	3985	1.3	70.887	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
1.9	7.7	-	46	2795	4367	2.2	77.681	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
1.9	7.5	-	44	2874	4490	1.1	79.873	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
1.6	6.5	-	39	3301	5157	1.0	91.737	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
1.6	6.6	-	39	3258	5090	1.9	90.551	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
1.5	6.2	-	36	3447	5386	1.6	97.467	GKS14-4M□□□132C32	E84AV□□□2234□□0	300
1.5	5.9	-	35	3671	5736	1.7	102.029	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
1.3	5.4	-	32	4006	6259	0.9	111.335	GKS11-3M□□□132C32	E84AV□□□2234□□0	292
1.4	5.5	-	32	3884	6069	1.5	109.822	GKS14-4M□□□132C32	E84AV□□□2234□□0	300
1.4	5.5	-	32	3954	6178	1.6	109.896	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
1.2	5.0	-	30	4226	6603	1.5	119.493	GKS14-4M□□□132C32	E84AV□□□2234□□0	300
1.2	4.9	-	29	4455	6961	1.6	123.826	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
1.1	4.5	-	26	4762	7440	1.4	134.640	GKS14-4M□□□132C32	E84AV□□□2234□□0	300
1.1	4.3	-	26	4998	7809	1.4	138.913	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
0.9	3.8	-	23	5589	8733	1.2	158.039	GKS14-4M□□□132C32	E84AV□□□2234□□0	300
1.0	3.8	-	23	5631	8799	1.3	156.522	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
0.8	3.4	-	20	6298	9840	1.1	178.072	GKS14-4M□□□132C32	E84AV□□□2234□□0	300
0.8	3.2	-	19	6713	10488	1.0	186.572	GKS14-3M□□□132C32	E84AV□□□2234□□0	292
0.8	3.1	-	18	6852	10707	1.0	193.754	GKS14-4M□□□132C32	E84AV□□□2234□□0	300
0.7	2.9	-	17	7563	11818	0.9	210.222	GKS14-3M□□□132C32	E84AV□□□2234□□0	292

GKS□□-3M H□R


k
h1
e1
s1
k1
Δk
h1
a6
f6
b6
l
h
n
a
Lenze
□k2
ϕ g
c5
ϕ s5
n
a5
b5
f5
o
6x60°
GKS05..14
GKS04
4x60°
45°
75°
ϕb1
HAR
f1
e5
b7
m
g1
p
ϕ a1
i1
u
t
d
d1
l1
l

6



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GKS04		399	419	441					
GKS05		419	439	461	521				
GKS06		475	495	517	577	627			
GKS07				573	633	683	728	776	
GKS09					704	754	799	847	
GKS11						845	890	938	
GKS14							989	1037	

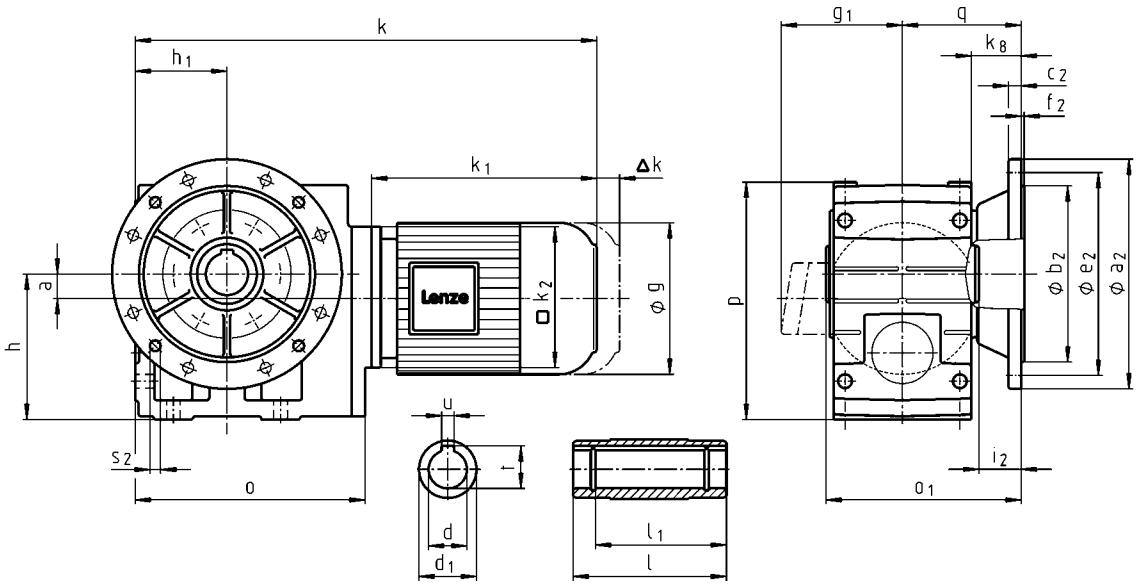
	a	h[1)]	h_1	o	p[1)]
GKS04	20	100	71	203	171
GKS05	23	125	80	232	205
GKS06	28	150	100	291	250
GKS07	34	190	120	354	310
GKS09	41	236	150	429	386
GKS11	54	300	185	527	485
GKS14	67	375	230	636	605

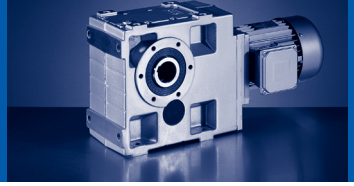
	d	d_1	l[1)]	l_1	u	t	i_1	a_1	b_1	e_1	f_1	s_1
	H7				JS9	+0,2			H7			
GKS04	25 30	45 45	115 115	100 100	8 8	28.3 33.3	2.5 2.5	104	75	90	3	M6x12
GKS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	4 4	118	80	100	4	M8x15
GKS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	5 5	140	100	120	4	M10x16
GKS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	5 5	165	115	140	5	M12x18
GKS09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	5 5	205	145	175	6	M16x24
GKS11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	6 6	240	140	205	6	M20x32
GKS14	100	135	350	305	28	106.4	7	290	170	250	6	M24x35

	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	m	n	s_5
GKS04	45	45	110	119	85	14	105	132	141	21	22	9
GKS05	47.5	47.5	115	140	105	17	127	144	169	21	29	11
GKS06	60	60	155	170	120	20	145	191	206	23	36	14
GKS07	70	70	190	210	150	25	180	235	255	28	45	18
GKS09	90	90	240	266	185	30	222	300	326	37	60	22
GKS11	105	105	290	325	225	40	270	363	398	43	73	26
GKS14	135	135	360	415	275	50	328	442	497	52	82	33

[1)] k_2 !

GKS□□-3M HAK


k
h1
k1
Δk
a
h
Lenze
□k2
ϕ g
s2
o
u
t
d
d1
l1
l
g1
q
k8
c2
f2
p
ϕ b2
ϕ e2
ϕ a2
i2
o1



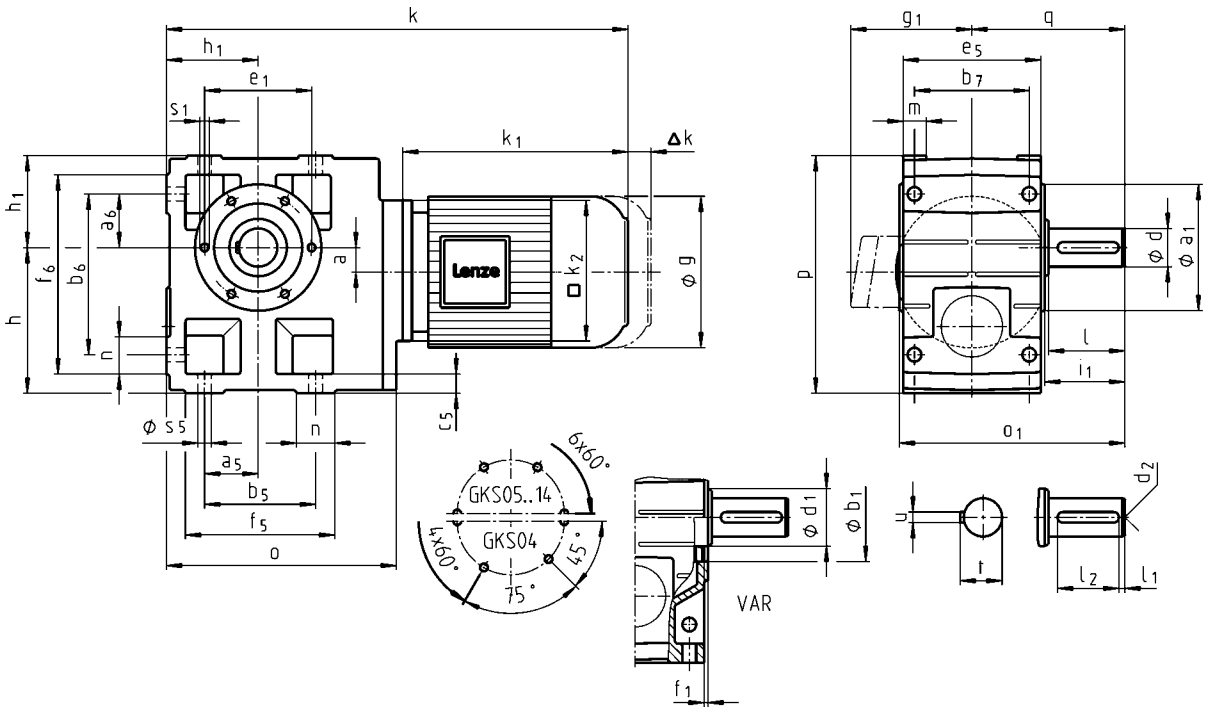
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GKS04		399	419	441					
GKS05		419	439	461	521				
GKS06		475	495	517	577	627			
GKS07				573	633	683	728	776	
GKS09					704	754	799	847	
GKS11						845	890	938	
GKS14							989	1037	

	a	h[1)]	h_1	k_8	o	p[1)]	q
GKS04	20	100	71	38.5	203	171	91
GKS05	23	125	80	40	232	205	103.5
GKS06	28	150	100	49	291	250	121.5
GKS07	34	190	120	65.5	354	310	155.5
GKS09	41	236	150	69.5	429	386	180.5
GKS11	54	300	185	70.5	527	485	205.5
GKS14	67	375	230	71.5	636	605	235.5

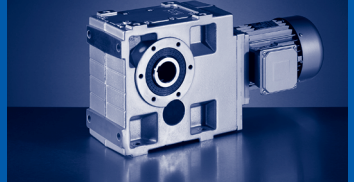
	d	d_1	l	l_1	u	t	i_2	o_1[1)]	a_2	b_2	c_2	e_2	f_2	s_2
	H7				JS9	+0,2				j7				
GKS04	25 30	45 45	115 115	100 100	8 8	28.3 33.3	33 33	148.5 148.5	160	110	10	130	3.5	4 x 9
GKS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	33 33	173.5 173.5	200	130	12	165	4	4 x 11
GKS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	42 41	201.5 201.5	200 250	180 130	12 15	165 215	3.5 4	4 x 11 4 x 14
GKS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	55 55	255.5 255.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GKS09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	60 60	300.5 300.5	350	250	18	300	4	4 x 17.5
GKS11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	60 60	350.5 350.5	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GKS14	100	135	350	305	28	106.4	60	410.5	450	350	22	400	5	8 x 18.5

[1)] k_2 !

GKS□□-3M V□R


k
h1
e1
s1
k1
Δk
h1
a6
f6
b6
l
a
h
n
Lenze
□k2
ø g
c5
ø s5
n
a5
b5
f5
o
6x60°
GKS05..14
GKS04
4x60°
45°
75°
g1
q
e5
b7
m
p
ø d
ø a1
l
i1
o1
ø d1
ø b1
u
t
d2
l2
l1
VAR
f1

6



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GKS04		399	419	441					
GKS05		419	439	461	521				
GKS06		475	495	517	577	627			
GKS07				573	633	683	728	776	
GKS09					704	754	799	847	
GKS11						845	890	938	
GKS14							989	1037	

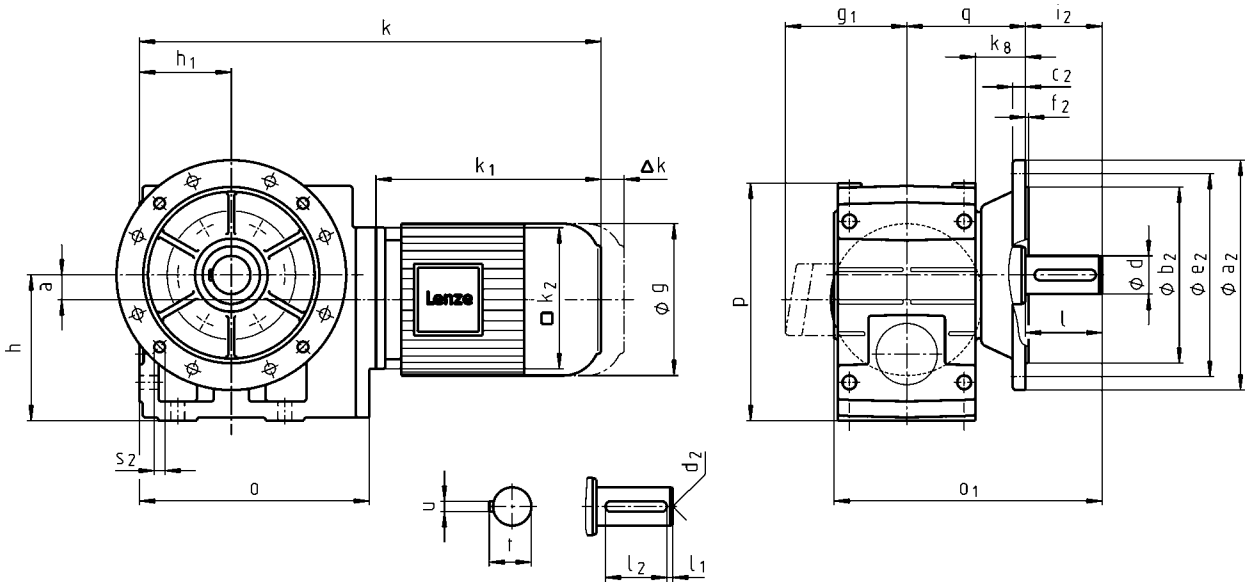
	a	h[1)]	h_1	o	p[1)]	q
GKS04	20	100	71	203	171	107.5
GKS05	23	125	80	232	205	130
GKS06	28	150	100	291	250	160
GKS07	34	190	120	354	310	200
GKS09	41	236	150	429	386	240
GKS11	54	300	185	527	485	305
GKS14	67	375	230	636	605	375

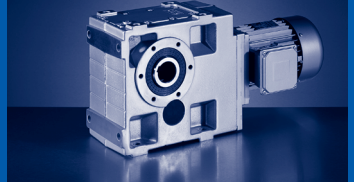
	d	d	d_1	d_2	l	l_1	l_2	u	t	i_1	o_1[1)]	a_1	b_1	e_1	f_1	s_1
	k6	m6											H7			
GKS04	25		45	M10	50	6	40	8	28	52.5	162.5	104	75	90	3	M6x12
GKS05	30		45	M10	60	6	45	8	33	64	196.5	118	80	100	4	M8x15
GKS06	40		65	M16	80	7	63	12	43	85	235.5	140	100	120	4	M10x16
GKS07	50		75	M16	100	8	80	14	53.5	105	295.5	165	115	140	5	M12x18
GKS09		60	95	M20	120	8	100	18	64	125	355.5	205	145	175	6	M16x24
GKS11		80	105	M20	160	15	125	22	85	166	444.5	240	140	205	6	M20x32
GKS14		100	135	M24	200	18	160	28	106	207	543.5	290	170	250	6	M24x35

	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	m	n	s_5
GKS04	45	45	110	119	85	14	105	132	141	21	22	9
GKS05	47.5	47.5	115	140	105	17	127	144	169	21	29	11
GKS06	60	60	155	170	120	20	145	191	206	23	36	14
GKS07	70	70	190	210	150	25	180	235	255	28	45	18
GKS09	90	90	240	266	185	30	222	300	326	37	60	22
GKS11	105	105	290	325	225	40	270	363	398	43	73	26
GKS14	135	135	360	415	275	50	328	442	497	52	82	33

[1)] k_2 !

GKS□□-3M VAK


k
h1
k1
Δk
a
h
Lenze
k2
ϕ g
s2
o
u
t
d2
l2
l1
g1
q
i2
k8
c2
f2
p
ϕ d
ϕ b2
ϕ e2
ϕ a2
l
o1



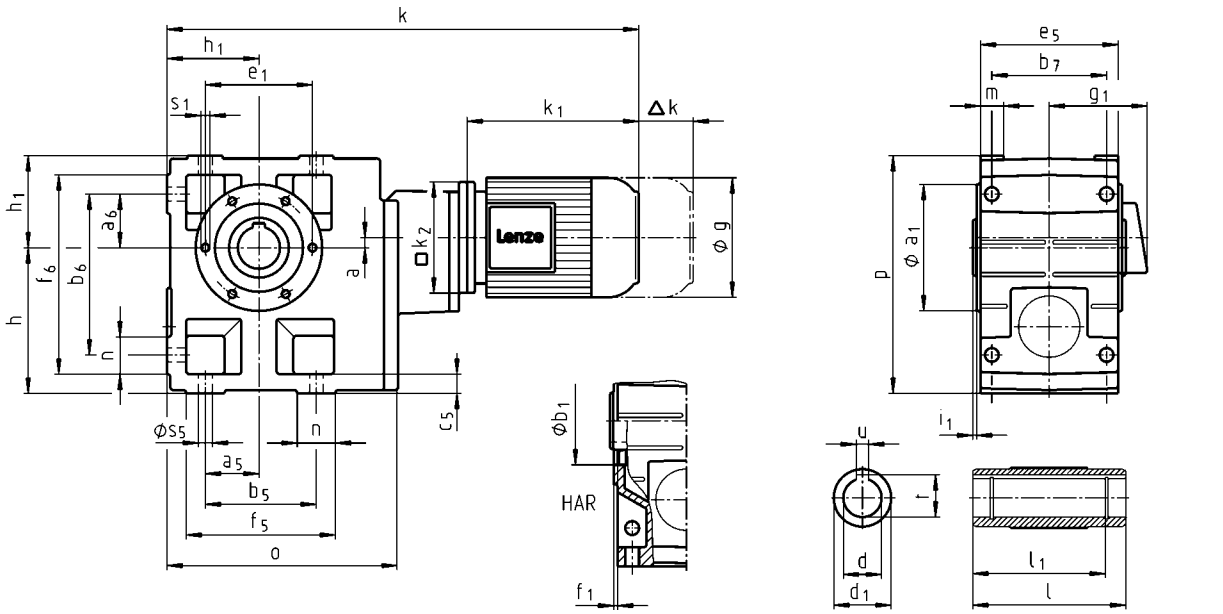
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g_1	MFEMAXX	100	109	141	146	157	167	195	
	MFEMABR	107	118	132	137	147	158	187	
k_1	MFEMAXX	187	207	224.5	274	324	363	403	
k_2		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX	128				109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
		k							
GKS04		399	419	441					
GKS05		419	439	461	521				
GKS06		475	495	517	577	627			
GKS07				573	633	683	728	776	
GKS09					704	754	799	847	
GKS11						845	890	938	
GKS14							989	1037	

	a	h[1)]	h_1	k_8	o	p[1)]	q
GKS04	20	100	71	38.5	203	171	91
GKS05	23	125	80	40	232	205	103.5
GKS06	28	150	100	49	291	250	121.5
GKS07	34	190	120	65.5	354	310	155.5
GKS09	41	236	150	69.5	429	386	180.5
GKS11	54	300	185	70.5	527	485	205.5
GKS14	67	375	230	71.5	636	605	235.5

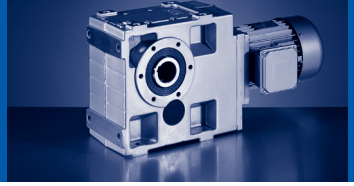
	d	d	d_2	l	l_1	l_2	u	t	i_2	o_1[1)]	a_2	b_2	c_2	e_2	f_2	s_2
	k6	m6										j7				
GKS04	25		M10	50	6	40	8	28	50	195.5	160	110	10	130	3.5	4 x 9
GKS05	30		M10	60	6	45	8	33	60	229.5	200	130	12	165	4	4 x 11
GKS06	40		M16	80	7	63	12	43	80	276.5	250	180	15	215	4	4 x 14
GKS07	50		M16	100	8	80	14	53.5	100	350.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GKS09		60	M20	120	8	100	18	64	120	415.5	350	250	18	300	4	4 x 17.5
GKS11		80	M20	160	15	125	22	85	160	504.5	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GKS14		100	M24	200	18	160	28	106	200	603.5	450	350	22	400	5	8 x 18.5

[1)] k_2 !

GKS□□-4M H□R



		063C32 063C42	071C32 071C42	080C32	080C42
g		123	139	156	
g_1	MFEMAXX	100	109	141	
	MFEMABR	107	118	132	
k_1	MFEMAXX	187	207	224.5	
k_2		120		145	
Δ k	MFEMABR	40	52	73	
	MFFMAXX	128			
	MFFMABR	170	165	183	
		k			
GKS05		495			
GKS06		568	588	611	
GKS07		635	655	678	
GKS09		724	744	767	
GKS11				877	



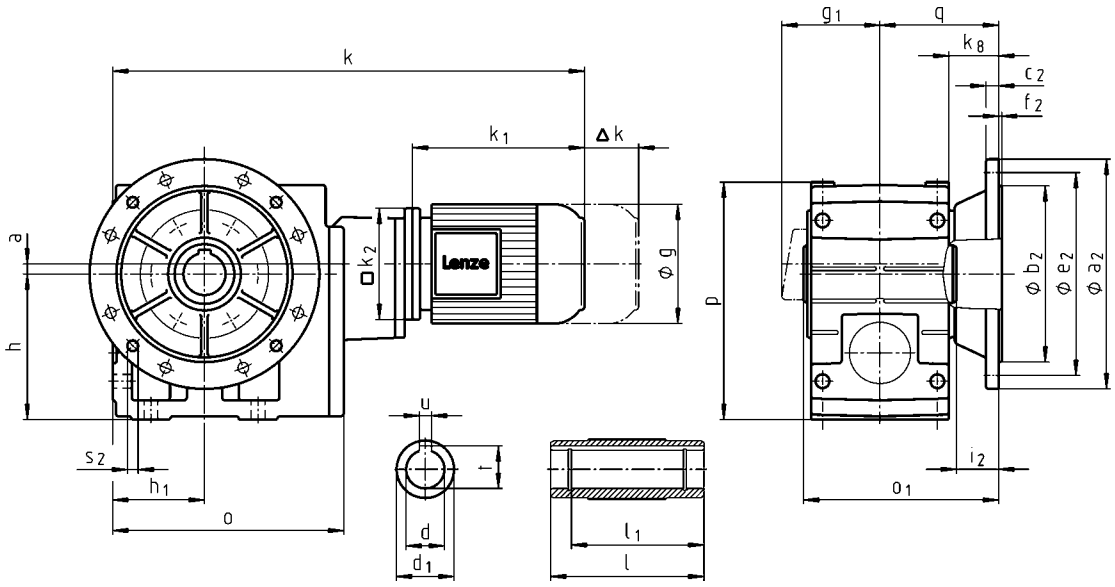
		090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		176	194	218	258	
g_1	MFEMAXX	146	157	167	195	
	MFEMABR	137	147	158	187	
k_1	MFEMAXX	274	324	363	403	
k_2		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GKS07		737				
GKS09		826	876	921		
GKS11		936	986	1031	1079	
GKS14		1069	1119	1164	1212	

	a	h	h_1	o	p
GKS05	13	125	80	226	205
GKS06	8	150	100	288	250
GKS07	11	190	120	350.5	310
GKS09	15	236	150	426	386
GKS11	16	300	185	523	485
GKS14	22	375	230	632	605

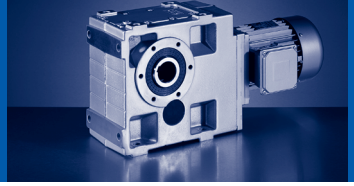
	d	d_1	l	l_1	u	t	i_1	a_1	b_1	e_1	f_1	s_1
	H7				JS9	+0,2			H7			
GKS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	4 4	118	80	100	4	M8x15
GKS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	5 5	140	100	120	4	M10x16
GKS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	5 5	165	115	140	5	M12x18
GKS09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	5 5	205	145	175	6	M16x24
GKS11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	6 6	240	140	205	6	M20x32
GKS14	100	135	350	305	28	106.4	7	290	170	250	6	M24x35

	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	m	n	s_5
GKS05	47.5	47.5	115	140	105	17	127	144	169	21	29	11
GKS06	60	60	155	170	120	20	145	191	206	23	36	14
GKS07	70	70	190	210	150	25	180	235	255	28	45	18
GKS09	90	90	240	266	185	30	222	300	326	37	60	22
GKS11	105	105	290	325	225	40	270	363	398	43	73	26
GKS14	135	135	360	415	275	50	328	442	497	52	82	33

GKS□□-4M HAK



		063C32 063C42	071C32 071C42	080C32	080C42
g		123	139	156	
g_1	MFEMAXX	100	109	141	
	MFEMABR	107	118	132	
k_1	MFEMAXX	187	207	224.5	
k_2		120		145	
Δ k	MFEMABR	40	52	73	
	MFFMAXX	128			
	MFFMABR	170	165	183	
		k			
GKS05		495			
GKS06		568	588	611	
GKS07		635	655	678	
GKS09		724	744	767	
GKS11				877	

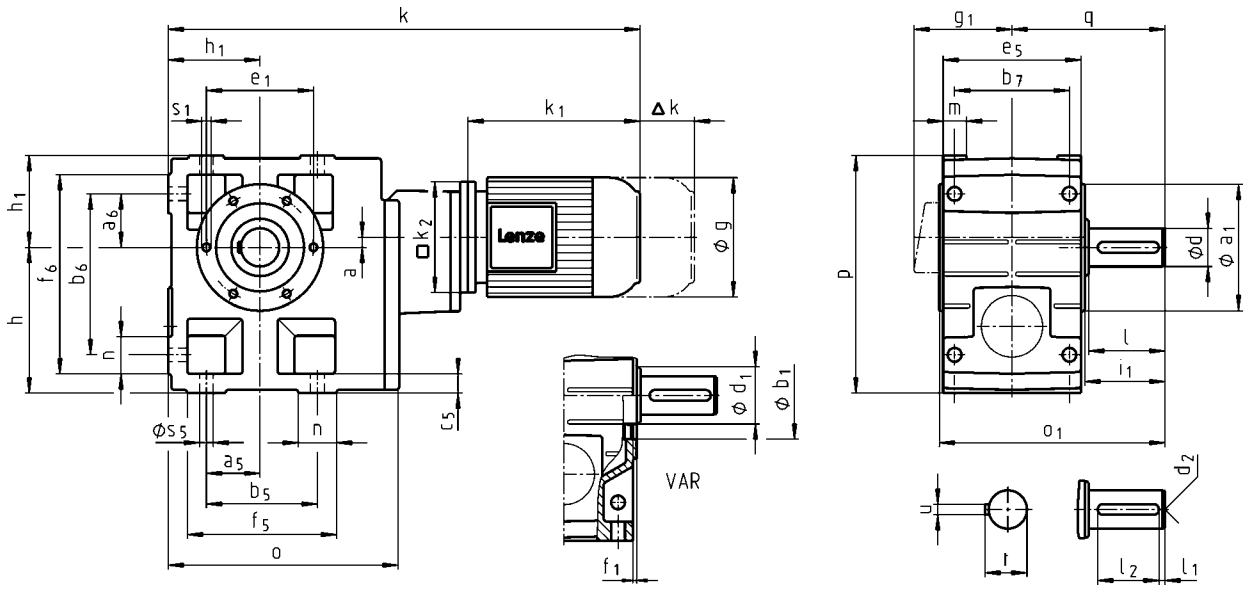


		090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		176	194	218	258	
g_1	MFEMAXX	146	157	167	195	
	MFEMABR	137	147	158	187	
k_1	MFEMAXX	274	324	363	403	
k_2		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GKS07		737				
GKS09		826	876	921		
GKS11		936	986	1031	1079	
GKS14		1069	1119	1164	1212	

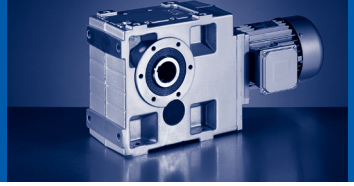
	a	h	h_1	k_8	o	p	q
GKS05	13	125	80	40	226	205	103.5
GKS06	8	150	100	49	288	250	121.5
GKS07	11	190	120	65.5	350.5	310	155.5
GKS09	15	236	150	69.5	426	386	180.5
GKS11	16	300	185	70.5	523	485	205.5
GKS14	22	375	230	71.5	632	605	235.5

	d	d_1	l	l_1	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	H7				JS9	+0,2				j7				
GKS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	33 33	173.5 173.5	200	130	12	165	4	4 x 11
GKS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	42 41	201.5 201.5	200 250	180 130	12 15	165 215	3.5 4	4 x 11 4 x 14
GKS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	55 55	255.5 255.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GKS09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	60 60	300.5 300.5	350	250	18	300	4	4 x 17.5
GKS11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	60 60	350.5 350.5	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GKS14	100	135	350	305	28	106.4	60	410.5	450	350	22	400	5	8 x 18.5

GKS□□-4M V□R



		063C32 063C42	071C32 071C42	080C32	080C42
g		123	139	156	
g_1	MFEMAXX	100	109	141	
	MFEMABR	107	118	132	
k_1	MFEMAXX	187	207	224.5	
k_2		120		145	
Δ k	MFEMABR	40	52	73	
	MFFMAXX	128			
	MFFMABR	170	165	183	
		k			
GKS05		495			
GKS06		568	588	611	
GKS07		635	655	678	
GKS09		724	744	767	
GKS11				877	



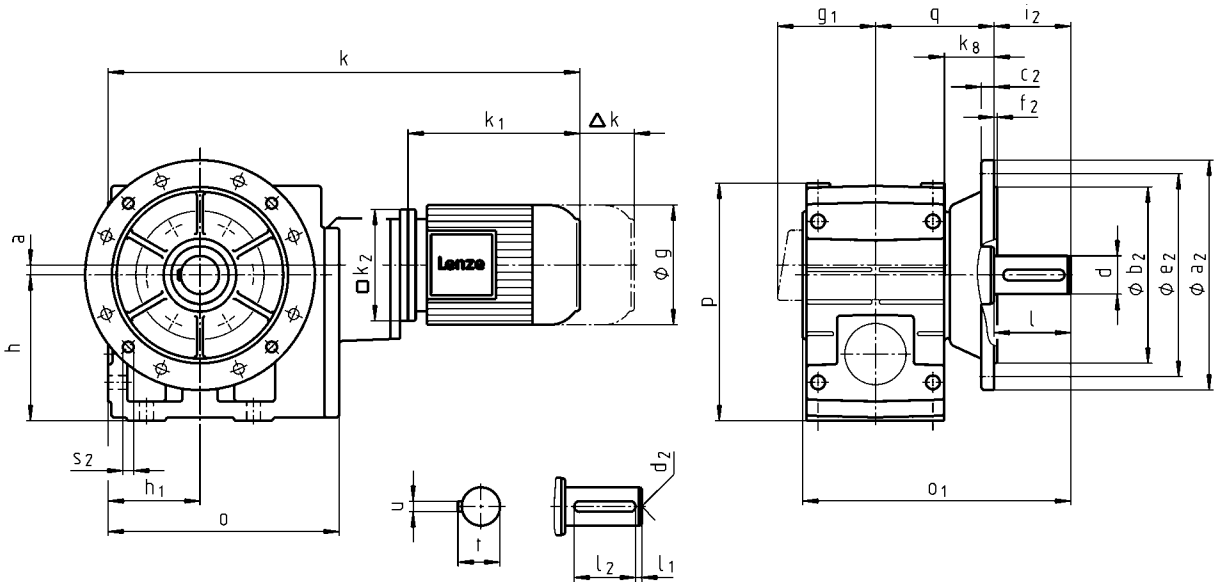
		090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		176	194	218	258	
g_1	MFEMAXX	146	157	167	195	
	MFEMABR	137	147	158	187	
k_1	MFEMAXX	274	324	363	403	
k_2		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GKS07		737				
GKS09		826	876	921		
GKS11		936	986	1031	1079	
GKS14		1069	1119	1164	1212	

	a	h	h_1	o	p	q
GKS05	13	125	80	226	205	130
GKS06	8	150	100	288	250	160
GKS07	11	190	120	350.5	310	200
GKS09	15	236	150	426	386	240
GKS11	16	300	185	523	485	305
GKS14	22	375	230	632	605	375

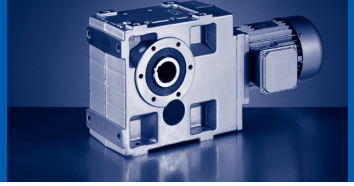
	d	d	d_1	d_2	l	l_1	l_2	u	t	i_1	o_1	a_1	b_1	e_1	f_1	s_1
	k6	m6											H7			
GKS05	30		45	M10	60	6	45	8	33	64	196.5	118	80	100	4	M8x15
GKS06	40		65	M16	80	7	63	12	43	85	235.5	140	100	120	4	M10x16
GKS07	50		75	M16	100	8	80	14	53.5	105	295.5	165	115	140	5	M12x18
GKS09		60	95	M20	120	8	100	18	64	125	355.5	205	145	175	6	M16x24
GKS11		80	105	M20	160	15	125	22	85	166	444.5	240	140	205	6	M20x32
GKS14		100	135	M24	200	18	160	28	106	207	543.5	290	170	250	6	M24x35

	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	m	n	s_5
GKS05	47.5	47.5	115	140	105	17	127	144	169	21	29	11
GKS06	60	60	155	170	120	20	145	191	206	23	36	14
GKS07	70	70	190	210	150	25	180	235	255	28	45	18
GKS09	90	90	240	266	185	30	222	300	326	37	60	22
GKS11	105	105	290	325	225	40	270	363	398	43	73	26
GKS14	135	135	360	415	275	50	328	442	497	52	82	33

GKS□□-4M VAK



		063C32 063C42	071C32 071C42	080C32	080C42
g		123	139	156	
g_1	MFEMAXX	100	109	141	
	MFEMABR	107	118	132	
k_1	MFEMAXX	187	207	224.5	
k_2		120		145	
Δ k	MFEMABR	40	52	73	
	MFFMAXX	128			
	MFFMABR	170	165	183	
		k			
GKS05		495			
GKS06		568	588	611	
GKS07		635	655	678	
GKS09		724	744	767	
GKS11				877	

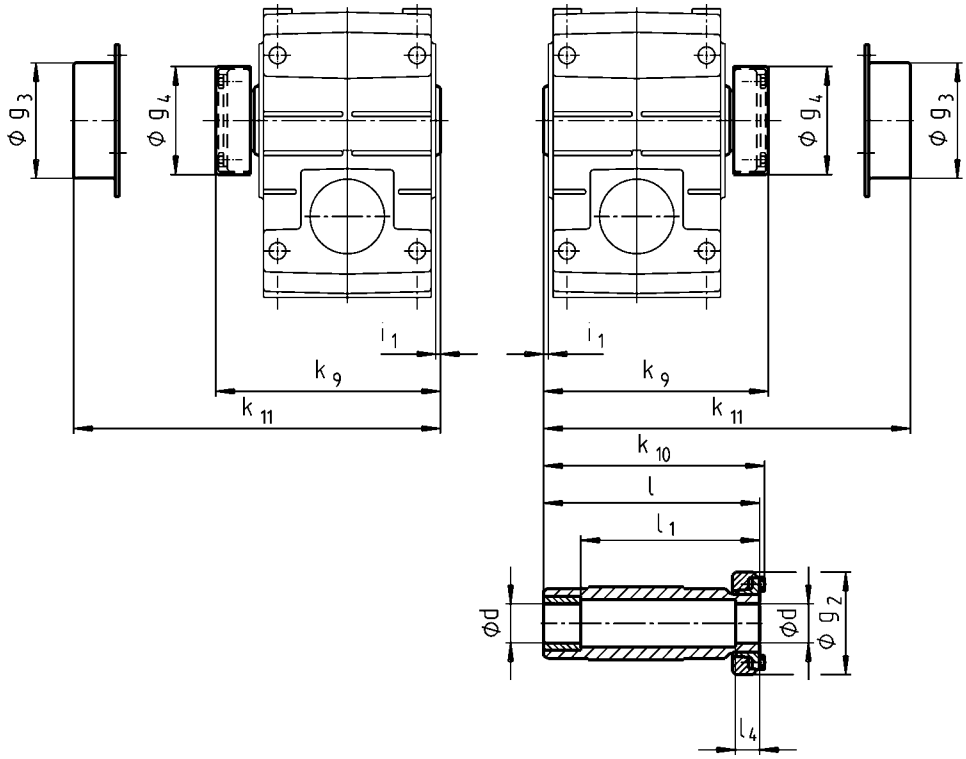


		090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		176	194	218	258	
g_1	MFEMAXX	146	157	167	195	
	MFEMABR	137	147	158	187	
k_1	MFEMAXX	274	324	363	403	
k_2		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GKS07		737				
GKS09		826	876	921		
GKS11		936	986	1031	1079	
GKS14		1069	1119	1164	1212	

	a	h	h_1	k_8	o	p	q
GKS05	13	125	80	40	226	205	103.5
GKS06	8	150	100	49	288	250	121.5
GKS07	11	190	120	65.5	350.5	310	155.5
GKS09	15	236	150	69.5	426	386	180.5
GKS11	16	300	185	70.5	523	485	205.5
GKS14	22	375	230	71.5	632	605	235.5

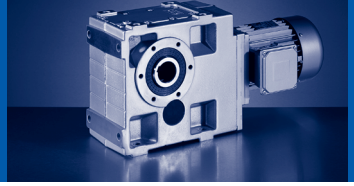
	d	d	d_2	l	l_1	l_2	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	k6	m6										j7				
GKS05	30		M10	60	6	45	8	33	60	229.5	200	130	12	165	4	4 x 11
GKS06	40		M16	80	7	63	12	43	80	276.5	250	180	15	215	4	4 x 14
GKS07	50		M16	100	8	80	14	53.5	100	350.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GKS09		60	M20	120	8	100	18	64	120	415.5	350	250	18	300	4	4 x 17.5
GKS11		80	M20	160	15	125	22	85	160	504.5	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GKS14		100	M24	200	18	160	28	106	200	603.5	450	350	22	400	5	8 x 18.5

Hollow shaft with shrink disc

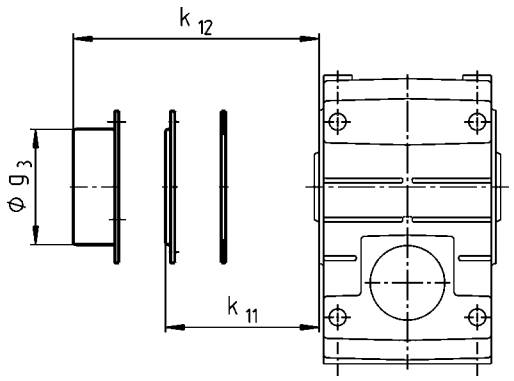


	d	g_2	g_3	g_4	i_1	k_9	k_{10}	k_{11}	l	l_1	l_4
	h6										
GKS04	25 30	72	79	76	2.5	150	148	154	142	122	26
GKS05	35	80	90	84	4.0	176	174	179	168	148	28
GKS06	40	90	100	94	5.0	202	200	204	194	164	30
GKS07	50	110	124	116		241	238	244	232	192	26
GKS09	65	141	159	147		288	285	287	278	228	30
GKS11	80	170	191	176	6.0	347	344	349	338	238	42
GKS14	100	215	253	221	7.0	418	415	421	407	307	55

- Output flange and hollow shaft with shrink disc (output version SAK) are not possible in the same location. For additional dimensions see output version H□□.
- Ensure that the strength of the machine shaft material is adequate in shrink disc designs.
  When using typical steels (e.g. C45, 42CrMo4), the torques listed in the selection tables can be used without restriction. Please consult us if you wish to use material that is considerably weaker. Medium surface roughness Rz must not exceed 15 µm (machining is sufficient).



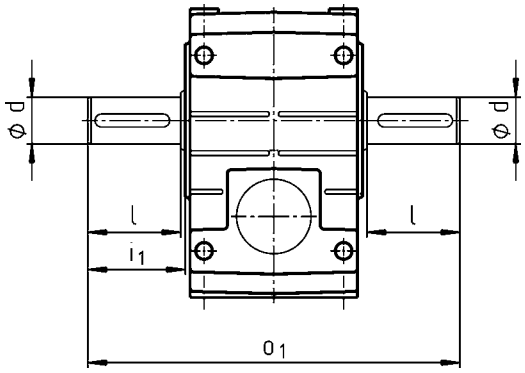
Hoseproof hollow shaft cover



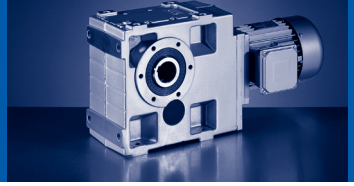
► Cover including gasket

	k_{11}	k_{12}	g_3
GKS04	9		
GKS05	10		
GKS06	11		
GKS07			
GKS09		54	159
GKS11		67	191
GKS14		80	253

Gearbox with 2nd output shaft end

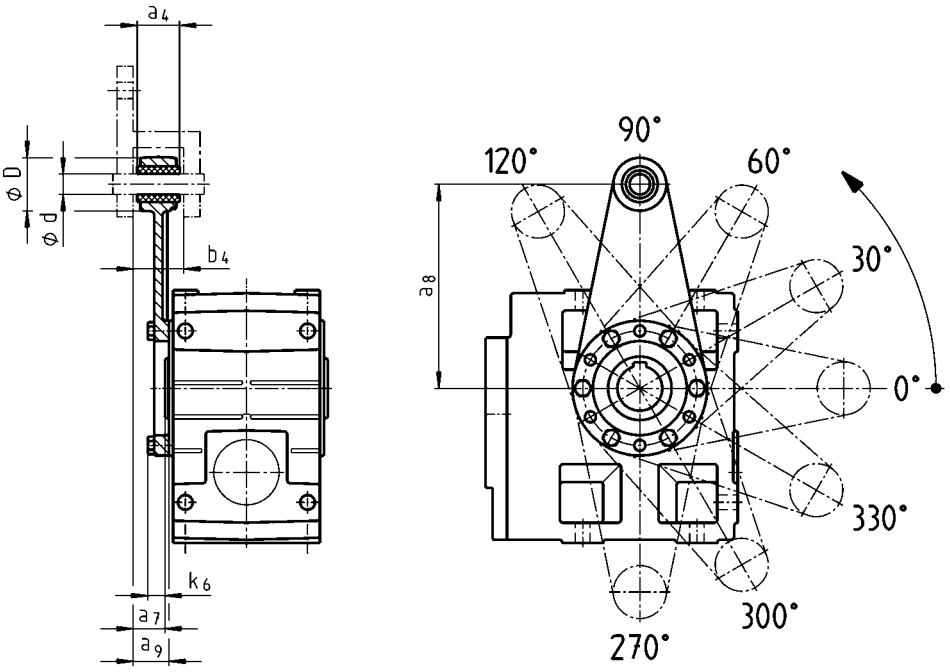


	d	d	l	i_1	o_1
	k6	m6			
GKS04	25		50	52.5	215
GKS05	30		60	64.0	260
GKS06	40		80	85.0	320
GKS07	50		100	105.0	400
GKS09		60	120	125.0	480
GKS11		80	160	166.0	610
GKS14		100	200	207.0	750

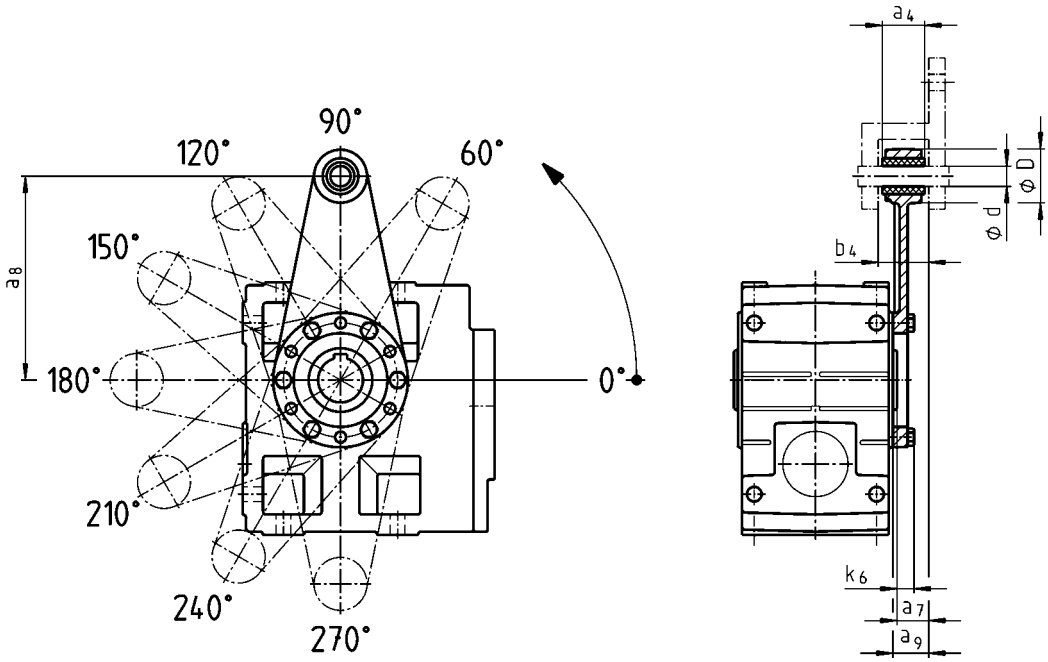


Torque plate on threaded pitch circle

In position 3



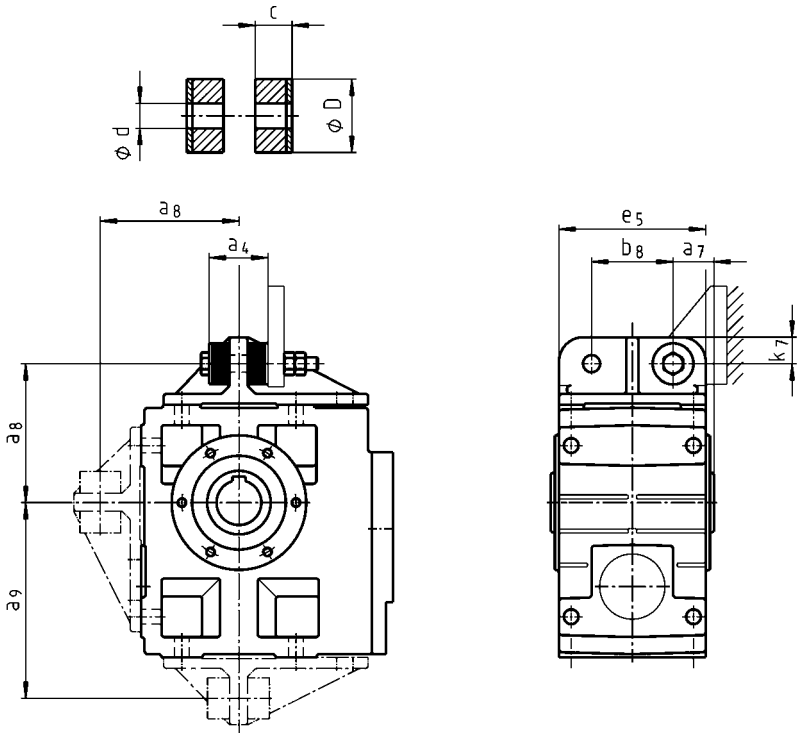
In position 5



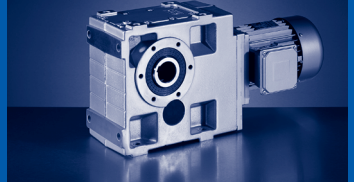
	a_4	a_7	a_8	a_9	b_4	d	D	k_6
GKS04	30	24.0	130	26.5	34.5	12	35	16
GKS05	34	23.5	160	27.5	38.5	16	45	15
GKS06	40	28.0	200	33.0	44.5	20	50	18
GKS07	46	32.5	250	37.5	50.5	25	65	21

Torque plate at housing foot

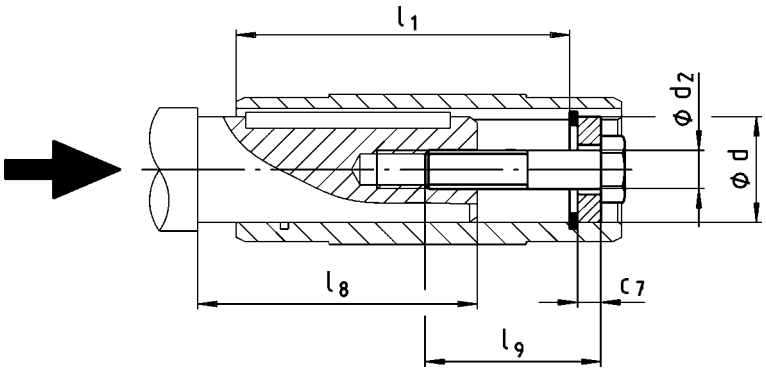
In position 2, 4 or 6

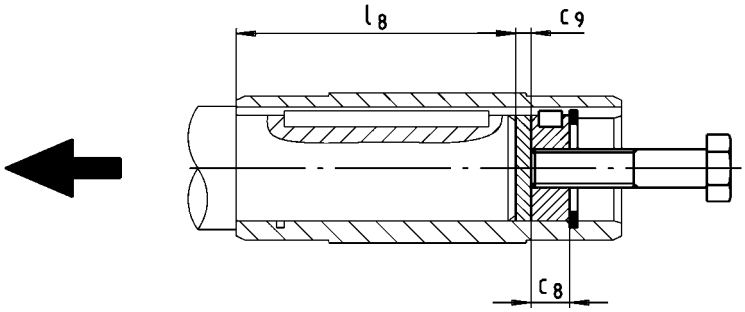


	a_4	a_7	a_8	a_9	b_8	c	d	D	e_5	k_7
GKS04	41	27.5	106	135.0	60	14.5	11	30	100	20
GKS05	45	35.0	115	160.0	70	15.0	13	40	127	25
GKS06	72	40.0	145	195.0	80	27.0	17	50	145	28
GKS07	78	50.0	170	240.0	100	28.0	21	60	180	35
GKS09	86	60.0	214	300.0	120	29.0	26	72	222	46
GKS11	94	72.5	260	375.0	145	30.0	33	92	270	55
GKS14	100	85.0	320	465.0	180		39	110	328	70



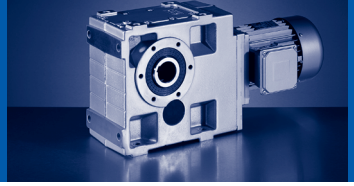
Mounting set for hollow shaft circlip - Proposed design for auxiliary tools

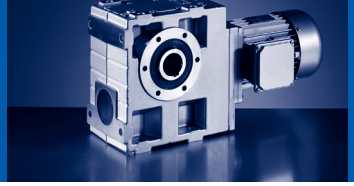




	d	l_1	d_2	l_9	c_7	c_8	c_9	$l_{8,\,max}$
	H7							
GKS04	25 30	100	M10	40	5	10	3	85
GKS05	30 35	124	M12	50	6 7	12		107
GKS06	40 45	140	M16	60	8 9	16	4	118
GKS07	50 55	175			10		5	148
GKS09	60 70	210	M20	80	11 13	20		182
GKS11	70 80	250			14 16		6	221
GKS14	100	305	M24	100	20	24	8	270

6



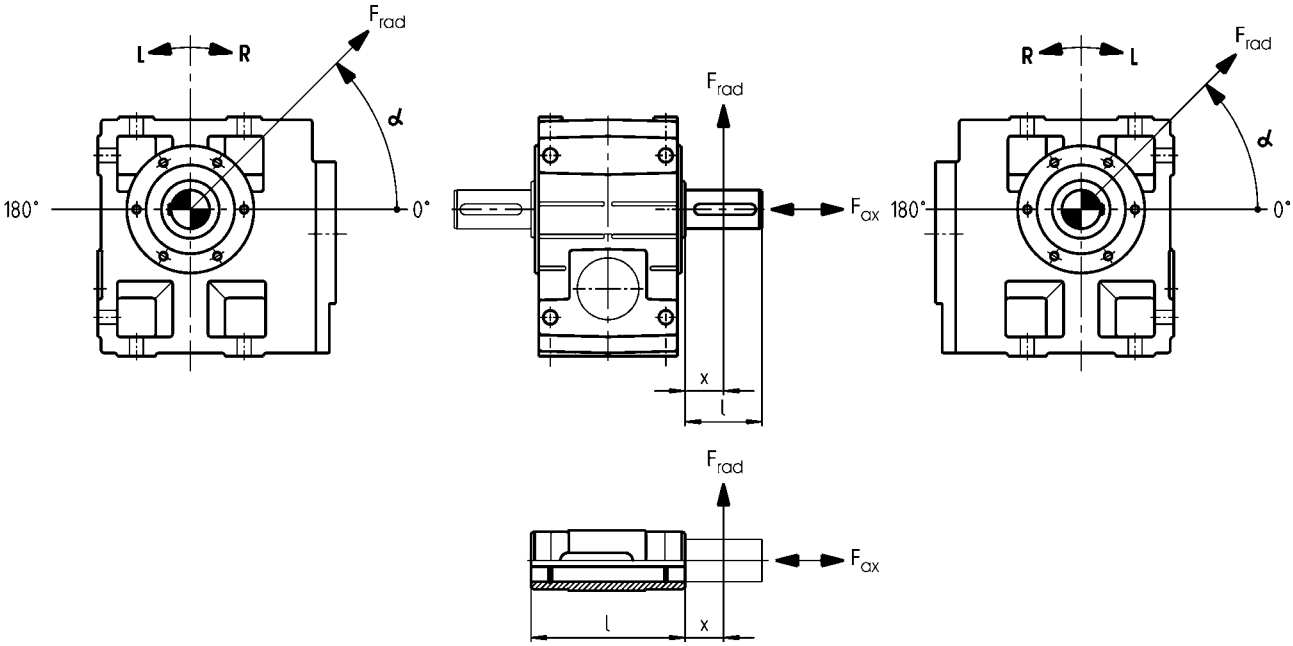


Permissible radial and axial forces at output

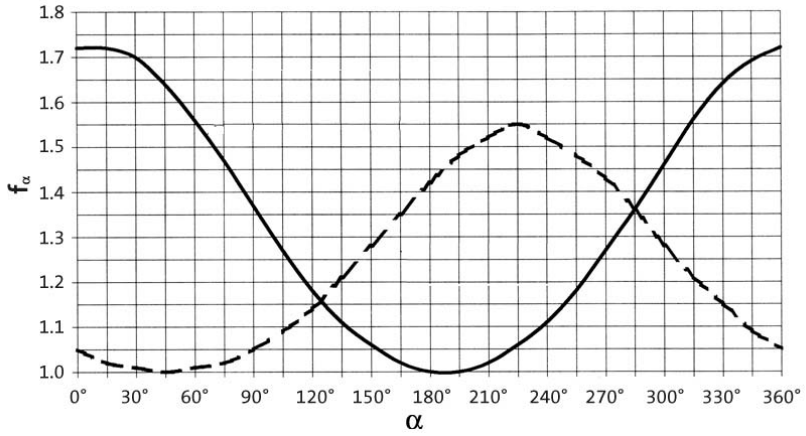
Permissible radial force
$F_{rad,per} = \min(f_w \times f_\alpha \times F_{rad,max}\ ;\ f_w \times F_{rad,max}$ at $n_2 \leq 16$ r/min)

Permissible axial force
$F_{ax,per} = F_{ax,max}$ if $F_{rad} = 0$

If F_{rad} **and** $F_{ax} \neq 0$; please contact Lenze.



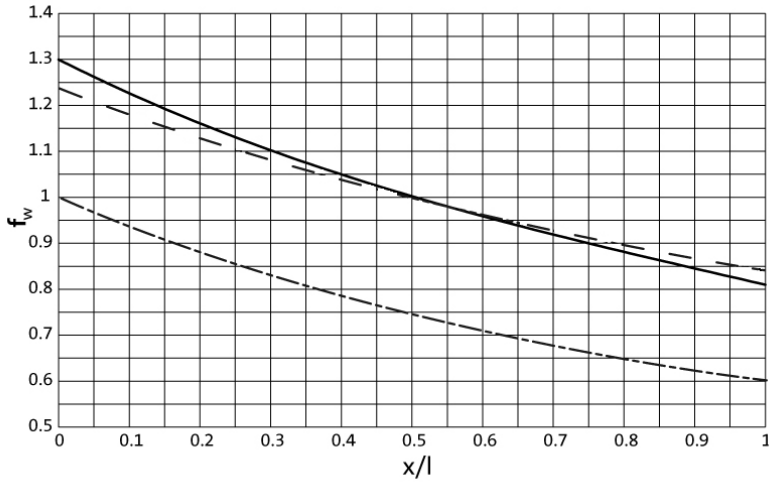
Effective direction factor f_α at output shaft



——— Direction of rotation R
— — — Direction of rotation L

7

Additional load factor f_w at output shaft

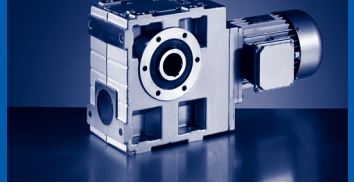


——— Solid shaft (V□□)
— — — Solid shaft with flange (V□K)
— · — Hollow shaft (H□□)

GSS□□-2/3□ H□□

Size	n_2 [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Hollow shaft								
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GSS04	2800	3000	3800	4500	5300	6000	6000	6000	6000
GSS05	3000	3200	3600	4300	5100	6000	7000	7500	7500
GSS06	4400	4600	4800	5600	6600	7700	9100	10700	11500
GSS07	4600	5100	5600	6700	8200	10000	12100	14800	16000
	Max. axial force, Hollow shaft								
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GSS04	2200	2900	3700	4200	4900	5500	5500	5500	5500
GSS05	1600	2200	2800	3500	4400	5500	6000	6000	6000
GSS06	1900	2500	3200	4100	5200	6500	8200	9000	9000
GSS07	1800	2400	3100	4100	5500	7200	9500	12500	12500

- Application of force F_{rad}: at hollow shaft end face (x = 0)
- $F_{ax,max}$ only valid with F_{rad} = 0
- Neither radial nor axial forces are permissible for the hollow shaft with shrink disc (S□□).



GSS□□-2/3□ V□R

Size	n_2 [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft without flange								
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GSS04	2200	2400	3000	3500	4100	4200	4200	4200	4200
GSS05	2300	2500	2900	3400	4000	4300	4300	4300	4300
GSS06	3400	3500	3600	4200	5000	5900	6900	8200	8500
GSS07	3700	4000	4200	5100	6300	7700	9300	11300	12000
	Max. axial force, Solid shaft without flange								
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GSS04	2200	2900	3700	4200	4900	5500	5500	5500	5500
GSS05	1600	2200	2800	3500	4400	5500	6000	6000	6000
GSS06	1900	2500	3200	4100	5200	6500	8200	9000	9000
GSS07	1800	2400	3100	4100	5500	7200	9500	12500	12500

GSS□□-2/3□ V□K

Size	n_2 [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16
	Max. radial force, Solid shaft with flange								
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GSS04	2750	3000	4100	4400	4700	4700	4700	4700	4700
GSS05	3450	3750	4900	4900	4900	4900	4900	4900	4900
GSS06	5100	5250	7000	8100	9400	9400	9400	9400	9400
GSS07	5500	6000	7900	9100	10600	12400	14000	14000	14000
	Max. axial force, Solid shaft with flange								
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GSS04	2100	2800	3500	4000	4200	4200	4200	4200	4200
GSS05	1500	2000	2500	3100	4000	4900	5500	5500	5500
GSS06	1600	2200	2800	3500	4500	5700	7300	8800	8800
GSS07	1400	1900	2400	3200	4300	5900	8000	10000	10000

- Application of force F_{rad}: centre of shaft journal (x = l/2)
- $F_{ax,max}$ only valid with F_{rad} = 0

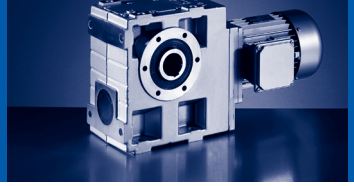
GSS□□-2

► Moment of inertia (J) depending on ratio i

Gearbox			GSS04
5.639	J	[kgcm²]	1.120
7.733	J	[kgcm²]	0.652
9.042	J	[kgcm²]	0.809
9.897	J	[kgcm²]	0.430
10.827	J	[kgcm²]	0.368
12.400	J	[kgcm²]	0.487
13.810	J	[kgcm²]	0.247
15.869	J	[kgcm²]	0.329
17.360	J	[kgcm²]	0.284
20.417	J	[kgcm²]	0.673
22.143	J	[kgcm²]	0.195
24.800	J	[kgcm²]	0.420
27.125	J	[kgcm²]	0.145
31.738	J	[kgcm²]	0.288
34.100	J	[kgcm²]	0.096
39.200	J	[kgcm²]	0.247
43.917	J	[kgcm²]	0.064
50.000	J	[kgcm²]	0.173
54.250	J	[kgcm²]	0.131
61.250	J	[kgcm²]	0.130
68.200	J	[kgcm²]	0.087
77.000	J	[kgcm²]	0.086
87.833	J	[kgcm²]	0.059
99.167	J	[kgcm²]	0.058
111.318	J	[kgcm²]	0.039
125.682	J	[kgcm²]	0.038
139.500	J	[kgcm²]	0.027
157.500	J	[kgcm²]	0.026
183.786	J	[kgcm²]	0.016
207.500	J	[kgcm²]	0.016

Gearbox			GSS05
5.639	J	[kgcm²]	2.821
7.733	J	[kgcm²]	1.664
9.042	J	[kgcm²]	2.014
9.897	J	[kgcm²]	1.102
10.827	J	[kgcm²]	0.941
12.400	J	[kgcm²]	1.235
13.810	J	[kgcm²]	0.638
15.869	J	[kgcm²]	0.840
17.360	J	[kgcm²]	0.722
20.417	J	[kgcm²]	1.601
22.143	J	[kgcm²]	0.504
24.800	J	[kgcm²]	1.059
27.125	J	[kgcm²]	0.377
31.738	J	[kgcm²]	0.733
35.306	J	[kgcm²]	0.233
39.200	J	[kgcm²]	0.610
43.917	J	[kgcm²]	0.167
50.000	J	[kgcm²]	0.435
54.250	J	[kgcm²]	0.341
61.250	J	[kgcm²]	0.332
70.611	J	[kgcm²]	0.211
79.722	J	[kgcm²]	0.206
87.833	J	[kgcm²]	0.153
99.167	J	[kgcm²]	0.149
113.667	J	[kgcm²]	0.096
128.333	J	[kgcm²]	0.094
137.950	J	[kgcm²]	0.070
155.750	J	[kgcm²]	0.069
176.313	J	[kgcm²]	0.045
199.063	J	[kgcm²]	0.044

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



GSS□□-2

- Moment of inertia (J) depending on ratio i

Gearbox			GSS06
5.833	J	[kgcm²]	6.966
8.000	J	[kgcm²]	4.219
9.042	J	[kgcm²]	5.541
10.238	J	[kgcm²]	2.811
11.200	J	[kgcm²]	2.393
12.400	J	[kgcm²]	3.461
14.286	J	[kgcm²]	1.630
15.869	J	[kgcm²]	2.348
17.360	J	[kgcm²]	2.006
20.417	J	[kgcm²]	4.172
22.143	J	[kgcm²]	1.392
24.800	J	[kgcm²]	3.056
27.125	J	[kgcm²]	1.039
31.738	J	[kgcm²]	2.101
35.306	J	[kgcm²]	0.660
39.200	J	[kgcm²]	1.635
43.917	J	[kgcm²]	0.475
50.000	J	[kgcm²]	1.164
54.250	J	[kgcm²]	0.955
61.250	J	[kgcm²]	0.887
70.611	J	[kgcm²]	0.610
79.722	J	[kgcm²]	0.570
87.833	J	[kgcm²]	0.443
99.167	J	[kgcm²]	0.417
113.667	J	[kgcm²]	0.276
128.333	J	[kgcm²]	0.260
137.950	J	[kgcm²]	0.201
155.750	J	[kgcm²]	0.191
174.375	J	[kgcm²]	0.130
196.875	J	[kgcm²]	0.123

Gearbox			GSS07
5.862	J	[kgcm²]	21.357
8.125	J	[kgcm²]	12.754
9.086	J	[kgcm²]	17.436
10.000	J	[kgcm²]	9.140
11.200	J	[kgcm²]	7.498
12.594	J	[kgcm²]	10.713
14.286	J	[kgcm²]	4.837
15.500	J	[kgcm²]	7.792
17.360	J	[kgcm²]	6.424
20.517	J	[kgcm²]	13.579
22.143	J	[kgcm²]	4.177
25.188	J	[kgcm²]	9.590
27.125	J	[kgcm²]	3.130
31.000	J	[kgcm²]	7.051
35.306	J	[kgcm²]	1.955
39.200	J	[kgcm²]	5.368
43.271	J	[kgcm²]	1.433
50.000	J	[kgcm²]	3.527
54.250	J	[kgcm²]	2.888
61.250	J	[kgcm²]	2.698
70.611	J	[kgcm²]	1.812
79.722	J	[kgcm²]	1.700
86.542	J	[kgcm²]	1.338
97.708	J	[kgcm²]	1.263
113.667	J	[kgcm²]	0.833
128.333	J	[kgcm²]	0.789
137.950	J	[kgcm²]	0.609
155.750	J	[kgcm²]	0.579
174.375	J	[kgcm²]	0.391
196.875	J	[kgcm²]	0.373

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

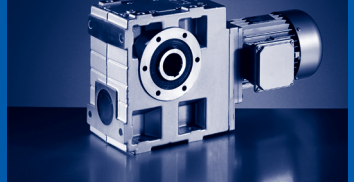
GSS□□-3

► Moment of inertia (J) depending on ratio i

Gearbox			GSS05
125.476	J	[kgcm²]	0.154
153.708	J	[kgcm²]	0.117
193.233	J	[kgcm²]	0.078
222.133	J	[kgcm²]	0.206
250.952	J	[kgcm²]	0.151
283.333	J	[kgcm²]	0.148
307.417	J	[kgcm²]	0.115
347.083	J	[kgcm²]	0.113
386.467	J	[kgcm²]	0.077
436.333	J	[kgcm²]	0.076
497.722	J	[kgcm²]	0.053
561.944	J	[kgcm²]	0.052
630.803	J	[kgcm²]	0.035
712.197	J	[kgcm²]	0.034
790.500	J	[kgcm²]	0.024
892.500	J	[kgcm²]	0.024
1041.452	J	[kgcm²]	0.015
1175.833	J	[kgcm²]	0.015

Gearbox			GSS06
126.531	J	[kgcm²]	0.310
142.857	J	[kgcm²]	0.298
155.000	J	[kgcm²]	0.271
175.000	J	[kgcm²]	0.263
194.857	J	[kgcm²]	0.144
220.000	J	[kgcm²]	0.139
238.700	J	[kgcm²]	0.128
269.500	J	[kgcm²]	0.124
310.689	J	[kgcm²]	0.112
350.778	J	[kgcm²]	0.110
386.467	J	[kgcm²]	0.103
436.333	J	[kgcm²]	0.102
497.722	J	[kgcm²]	0.069
561.944	J	[kgcm²]	0.068
630.803	J	[kgcm²]	0.045
712.197	J	[kgcm²]	0.044
816.333	J	[kgcm²]	0.042
921.667	J	[kgcm²]	0.042
1023.000	J	[kgcm²]	0.029
1155.000	J	[kgcm²]	0.029
1241.550	J	[kgcm²]	0.028
1401.750	J	[kgcm²]	0.028
1635.693	J	[kgcm²]	0.017
1846.750	J	[kgcm²]	0.017

► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



GSS□□-3

► Moment of inertia (J) depending on ratio i

Gearbox			GSS07
126.531	J	[kgcm²]	0.857
142.857	J	[kgcm²]	0.822
155.000	J	[kgcm²]	0.742
175.000	J	[kgcm²]	0.719
201.746	J	[kgcm²]	0.372
227.778	J	[kgcm²]	0.358
247.139	J	[kgcm²]	0.327
279.028	J	[kgcm²]	0.317
321.673	J	[kgcm²]	0.281
363.179	J	[kgcm²]	0.276
394.245	J	[kgcm²]	0.258
445.116	J	[kgcm²]	0.255
490.403	J	[kgcm²]	0.183
553.681	J	[kgcm²]	0.181
634.639	J	[kgcm²]	0.114
716.528	J	[kgcm²]	0.113
833.556	J	[kgcm²]	0.105
941.111	J	[kgcm²]	0.105
1011.633	J	[kgcm²]	0.076
1142.167	J	[kgcm²]	0.076
1227.755	J	[kgcm²]	0.074
1386.175	J	[kgcm²]	0.073
1569.181	J	[kgcm²]	0.047
1771.656	J	[kgcm²]	0.047

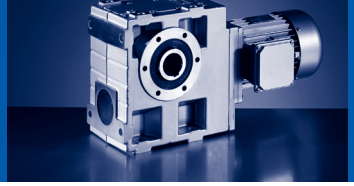
► The moments of inertia relate to the drive shaft of the gearbox.
► The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

- During start-up, the start-up efficiency η_a of a helical-worm gearbox is lower than its operative efficiency at rated speed. **The start-up efficiency η_a must therefore always be considered when starting under load.**

GSS□□-2

GSS04-2

				n_2 [r/min]											
				10	16	25	32	40	63	100	160	250	400	630	800
5.639	η_a	0.71	$\eta_{c=1}$	0.83	0.86	0.88	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.89	0.89
7.733	η_a	0.71	$\eta_{c=1}$	0.83	0.86	0.88	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.89	0.89
9.042	η_a	0.67	$\eta_{c=1}$	0.81	0.84	0.86	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.87	
9.897	η_a	0.71	$\eta_{c=1}$	0.83	0.86	0.88	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.89	0.89
10.827	η_a	0.71	$\eta_{c=1}$	0.83	0.86	0.88	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.89	0.89
12.400	η_a	0.67	$\eta_{c=1}$	0.81	0.84	0.86	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.87	
13.810	η_a	0.71	$\eta_{c=1}$	0.83	0.86	0.88	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.89	0.89
15.869	η_a	0.67	$\eta_{c=1}$	0.81	0.84	0.86	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.87	
17.360	η_a	0.67	$\eta_{c=1}$	0.81	0.84	0.86	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.87	
20.417	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			
22.143	η_a	0.67	$\eta_{c=1}$	0.81	0.84	0.86	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.87	
24.800	η_a	0.56	$\eta_{c=1}$	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.80	0.79			
27.125	η_a	0.67	$\eta_{c=1}$	0.81	0.84	0.86	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.87	
31.738	η_a	0.56	$\eta_{c=1}$	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.80	0.79			
34.100	η_a	0.67	$\eta_{c=1}$	0.81	0.84	0.86	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.87	
39.200	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			
43.917	η_a	0.67	$\eta_{c=1}$	0.81	0.84	0.86	0.87	0.87	0.88	0.88	0.87	0.87	0.87	0.87	
50.000	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			
54.250	η_a	0.56	$\eta_{c=1}$	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.80	0.79			
61.250	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			
68.200	η_a	0.56	$\eta_{c=1}$	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.80	0.79			
77.000	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			
87.833	η_a	0.56	$\eta_{c=1}$	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.80	0.79			
99.167	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			
111.318	η_a	0.56	$\eta_{c=1}$	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.80	0.79			
125.682	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			
139.500	η_a	0.56	$\eta_{c=1}$	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.80	0.79			
157.500	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			
183.786	η_a	0.56	$\eta_{c=1}$	0.77	0.79	0.80	0.81	0.81	0.81	0.80	0.80	0.79			
207.500	η_a	0.55	$\eta_{c=1}$	0.76	0.78	0.79	0.79	0.79	0.79	0.79	0.78	0.78			

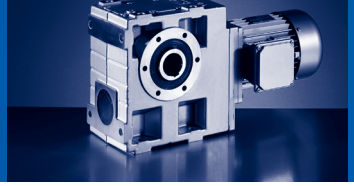


GSS05-2

				n_2 [r/min]											
				10	16	25	32	40	63	100	160	250	400	630	800
5.639	η_a	0.71	$\eta_{c=1}$	0.85	0.87	0.89	0.90	0.90	0.91	0.91	0.91	0.91	0.90	0.90	0.90
7.733	η_a	0.71	$\eta_{c=1}$	0.85	0.87	0.89	0.90	0.90	0.91	0.91	0.91	0.91	0.90	0.90	0.90
9.042	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88	
9.897	η_a	0.71	$\eta_{c=1}$	0.85	0.87	0.89	0.90	0.90	0.91	0.91	0.91	0.91	0.90	0.90	0.90
10.827	η_a	0.71	$\eta_{c=1}$	0.85	0.87	0.89	0.90	0.90	0.91	0.91	0.91	0.91	0.90	0.90	0.90
12.400	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88	
13.810	η_a	0.71	$\eta_{c=1}$	0.85	0.87	0.89	0.90	0.90	0.91	0.91	0.91	0.91	0.90	0.90	0.90
15.869	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88	
17.360	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88	
20.417	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			
22.143	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88	
24.800	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82			
27.125	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88	
31.738	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82			
35.306	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88	
39.200	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			
43.917	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88	
50.000	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			
54.250	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82			
61.250	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			
70.611	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82			
79.722	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			
87.833	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82			
99.167	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			
113.667	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82			
128.333	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			
137.950	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82			
155.750	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			
176.313	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82			
199.063	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81			

GSS06-2

				n_2 [r/min]											
				10	16	25	32	40	63	100	160	250	400	630	800
5.833	η_a	0.72	$\eta_{c=1}$	0.87	0.89	0.90	0.91	0.91	0.91	0.92	0.92	0.92	0.91	0.91	0.91
8.000	η_a	0.72	$\eta_{c=1}$	0.87	0.89	0.90	0.91	0.91	0.91	0.92	0.92	0.92	0.91	0.91	0.91
9.042	η_a	0.67	$\eta_{c=1}$	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
10.238	η_a	0.72	$\eta_{c=1}$	0.87	0.89	0.90	0.91	0.91	0.91	0.92	0.92	0.92	0.91	0.91	0.91
11.200	η_a	0.72	$\eta_{c=1}$	0.87	0.89	0.90	0.91	0.91	0.91	0.92	0.92	0.92	0.91	0.91	0.91
12.400	η_a	0.67	$\eta_{c=1}$	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.80
14.286	η_a	0.72	$\eta_{c=1}$	0.89	0.90	0.91	0.91	0.91	0.92	0.92	0.92	0.91	0.91	0.91	
15.869	η_a	0.67	$\eta_{c=1}$	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
17.360	η_a	0.67	$\eta_{c=1}$	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
20.417	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
22.143	η_a	0.67	$\eta_{c=1}$	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
24.800	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
27.125	η_a	0.67	$\eta_{c=1}$	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
31.738	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
35.306	η_a	0.67	$\eta_{c=1}$	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
39.200	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
43.917	η_a	0.67	$\eta_{c=1}$	0.85	0.87	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	
50.000	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
54.250	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
61.250	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
70.611	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
79.722	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
87.833	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
99.167	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
113.667	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
128.333	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
137.950	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
155.750	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
174.375	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
196.875	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			



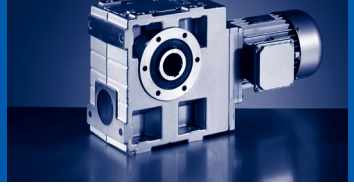
GSS07-2

				n_2 [r/min]											
				10	16	25	32	40	63	100	160	250	400	630	800
5.862	η_a	0.74	$\eta_{c=1}$	0.89	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
8.125	η_a	0.74	$\eta_{c=1}$	0.89	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
9.086	η_a	0.69	$\eta_{c=1}$	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
10.000	η_a	0.74	$\eta_{c=1}$	0.89	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
11.200	η_a	0.74	$\eta_{c=1}$	0.89	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
12.594	η_a	0.69	$\eta_{c=1}$	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
14.286	η_a	0.74	$\eta_{c=1}$	0.89	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
15.500	η_a	0.69	$\eta_{c=1}$	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
17.360	η_a	0.69	$\eta_{c=1}$	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
20.517	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
22.143	η_a	0.69	$\eta_{c=1}$	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
25.188	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
27.125	η_a	0.69	$\eta_{c=1}$	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
31.000	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
35.306	η_a	0.69	$\eta_{c=1}$	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
39.200	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
43.271	η_a	0.69	$\eta_{c=1}$	0.88	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
50.000	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
54.250	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
61.250	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
70.611	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
79.722	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
86.542	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
97.708	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
113.667	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
128.333	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
137.950	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
155.750	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
174.375	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
196.875	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85			

GSS□□-3

GSS05-3

				n_2 [r/min]										
				10	16	25	32	40	63	100	160	250	400	630
125.476	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88
153.708	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88
193.233	η_a	0.67	$\eta_{c=1}$	0.83	0.86	0.87	0.88	0.88	0.89	0.89	0.88	0.88	0.88	0.88
222.133	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81		
250.952	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82		
283.333	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81		
307.417	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82		
347.083	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81		
386.467	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82		
436.333	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81		
497.722	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82		
561.945	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81		
630.803	η_a	0.57	$\eta_{c=1}$	0.79	0.81	0.82	0.82	0.83	0.83	0.82	0.82	0.82		
712.197	η_a	0.55	$\eta_{c=1}$	0.79	0.80	0.81	0.81	0.81	0.81	0.81	0.81	0.81		

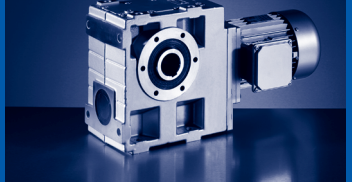


GSS06-3

				n_2 [r/min]											
				10	16	25	32	40	63	100	160	250	400	630	800
126.531	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.91	0.91	0.91
142.857	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
155.000	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
175.000	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
194.857	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
220.000	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
238.700	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
269.500	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
310.689	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
350.778	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
386.467	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
436.333	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
497.722	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
561.945	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
630.803	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
712.197	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
816.333	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
921.667	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
1023.000	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
1155.000	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
1241.550	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
1401.750	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
1635.693	η_a	0.57	$\eta_{c=1}$	0.81	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83			
1846.750	η_a	0.57	$\eta_{c=1}$	0.81	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83			

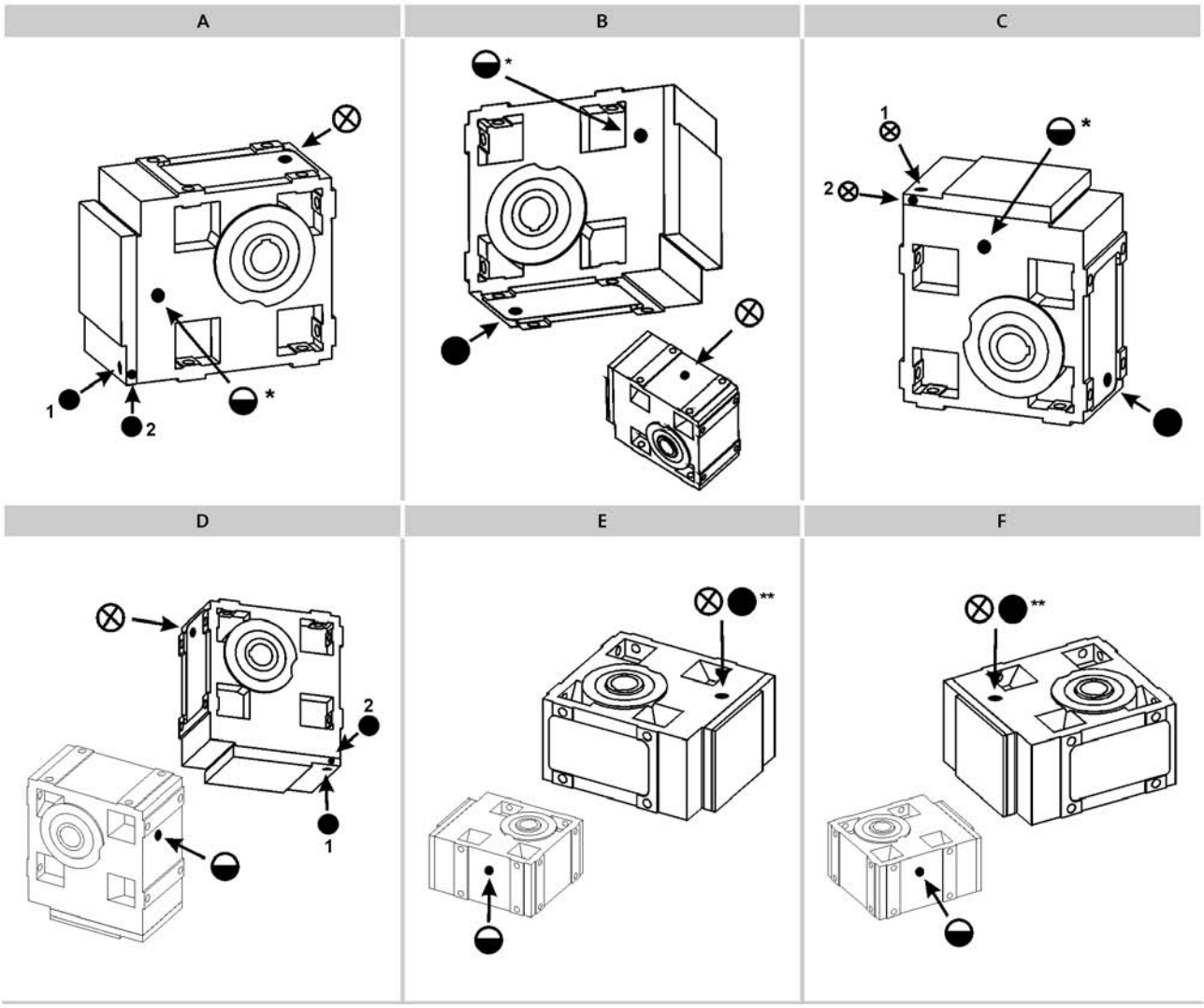
GSS07-3

				n_2 [r/min]								
				10	16	25	32	40	63	100	160	250
126.531	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
142.857	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
155.000	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
175.000	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
201.746	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
227.778	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
247.139	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
279.028	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
321.673	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
363.179	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
394.245	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
445.116	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
490.403	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
553.681	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
634.639	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
716.528	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
833.556	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
941.111	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
1011.633	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
1142.167	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
1227.755	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
1386.175	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85
1569.181	η_a	0.60	$\eta_{c=1}$	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
1771.656	η_a	0.60	$\eta_{c=1}$	0.84	0.84	0.85	0.85	0.85	0.85	0.85	0.85	0.85



Position of ventilation, sealing elements and oil level check

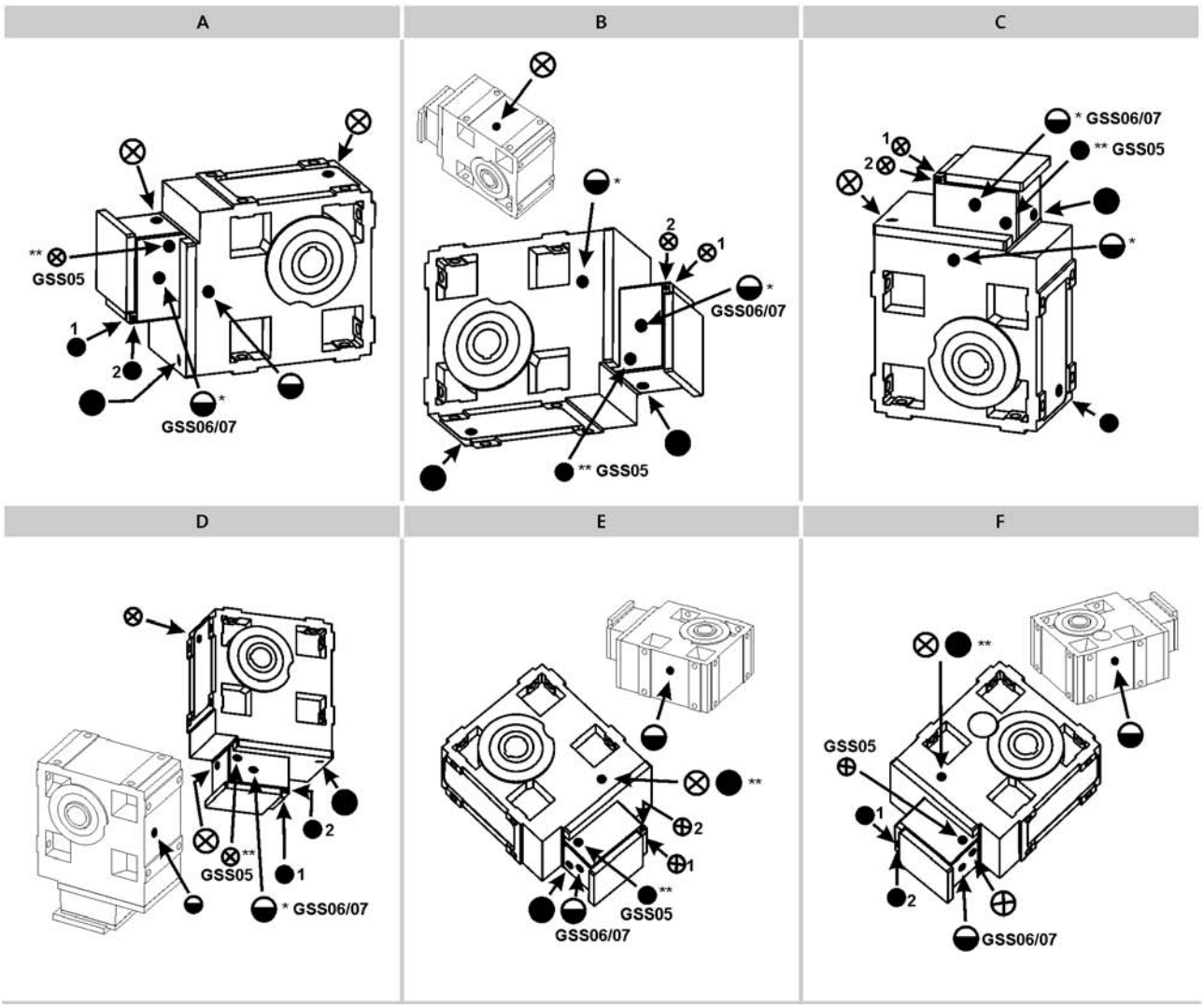
GSS05...07-2



A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

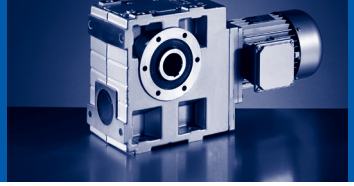
Pos.1 standard
Pos.2 only with:
- GSS05-2M □□□ 090C□□
- GSS05-2M □□□ 100C□□
- GSS06-2M □□□ 112C□□

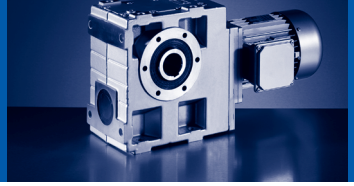
GSS05...07-3



A ... F Mounting position
⊗ Ventilation / Oil filler plug
● Oil drain plug
◒ Oil control plug
* On both sides
** On opposite side

Item 1 standard
Item 2 only on:
- GSS07-3M □□□ 090C□□
- GSS07-3M □□□ 100C□□





GSS□□-2M HAR / HBR

			063C32 063C42	071C32 071C42	080C32 080C42
GSS04	m	[kg]	16	18	23
GSS05	m	[kg]	26	28	32
GSS06	m	[kg]	38	40	45
GSS07	m	[kg]			70

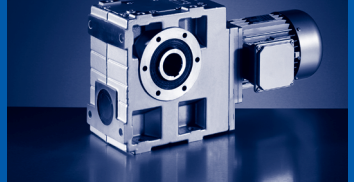
			090C32	100C12 100C32	112C22	132C12 132C22
GSS04	m	[kg]	31			
GSS05	m	[kg]	40	49		
GSS06	m	[kg]	53	61	74	
GSS07	m	[kg]	78	86	99	129

GSS□□-2M HAK

			063C32 063C42	071C32 071C42	080C32 080C42
GSS04	m	[kg]	19	21	26
GSS05	m	[kg]	30	32	36
GSS06	m	[kg]	45	47	52
GSS07	m	[kg]			81

			090C32	100C12 100C32	112C22	132C12 132C22
GSS04	m	[kg]	33			
GSS05	m	[kg]	44	53		
GSS06	m	[kg]	60	68	81	
GSS07	m	[kg]	89	97	110	140

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GSS□□-2M VAR / VBR

			063C32 063C42	071C32 071C42	080C32 080C42
GSS04	m	[kg]	17	19	24
GSS05	m	[kg]	27	29	33
GSS06	m	[kg]	40	42	47
GSS07	m	[kg]			75

			090C32	100C12 100C32	112C22	132C12 132C22
GSS04	m	[kg]	31			
GSS05	m	[kg]	41	50		
GSS06	m	[kg]	55	64	77	
GSS07	m	[kg]	83	91	104	134

GSS□□-2M VAK

			063C32 063C42	071C32 071C42	080C32 080C42
GSS04	m	[kg]	19	21	26
GSS05	m	[kg]	31	33	37
GSS06	m	[kg]	47	49	54
GSS07	m	[kg]			86

			090C32	100C12 100C32	112C22	132C12 132C22
GSS04	m	[kg]	34			
GSS05	m	[kg]	45	54		
GSS06	m	[kg]	62	71	84	
GSS07	m	[kg]	94	102	115	145

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GSS□□-2M SAR / SBR

			063C32 063C42	071C32 071C42	080C32 080C42
GSS04	m	[kg]	17	19	24
GSS05	m	[kg]	26	29	33
GSS06	m	[kg]	39	41	46
GSS07	m	[kg]			71

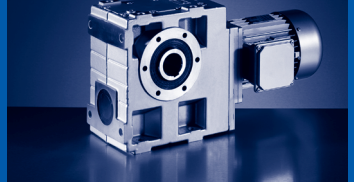
			090C32	100C12 100C32	112C22	132C12 132C22
GSS04	m	[kg]	31			
GSS05	m	[kg]	41	50		
GSS06	m	[kg]	54	62	75	
GSS07	m	[kg]	79	88	101	130

GSS□□-2M SAK

			063C32 063C42	071C32 071C42	080C32 080C42
GSS04	m	[kg]	19	21	26
GSS05	m	[kg]	30	33	37
GSS06	m	[kg]	46	48	53
GSS07	m	[kg]			82

			090C32	100C12 100C32	112C22	132C12 132C22
GSS04	m	[kg]	34			
GSS05	m	[kg]	45	54		
GSS06	m	[kg]	61	69	82	
GSS07	m	[kg]	90	99	112	141

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GSS□□-3M HAR / HBR

			063C32 063C42	071C32 071C42	080C32	080C42	090C32
GSS05	m	[kg]	26				
GSS06	m	[kg]	42	44	49		
GSS07	m	[kg]	71	73	78		85

GSS□□-3M HAK

			063C32 063C42	071C32 071C42	080C32	080C42	090C32
GSS05	m	[kg]	30				
GSS06	m	[kg]	49	51	56		
GSS07	m	[kg]	82	84	89		96

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

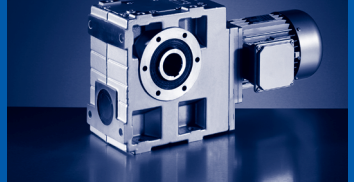
GSS□□-3M VAR / VBR

			063C32 063C42	071C32 071C42	080C32	080C42	090C32
GSS05	m	[kg]	27				
GSS06	m	[kg]	44	46	51		
GSS07	m	[kg]	76	78	83		90

GSS□□-3M VAK

			063C32 063C42	071C32 071C42	080C32	080C42	090C32
GSS05	m	[kg]	31				
GSS06	m	[kg]	51	53	58		
GSS07	m	[kg]	87	89	94		101

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).



GSS□□-3M SAR / SBR

			063C32 063C42	071C32 071C42	080C32	080C42	090C32
GSS05	m	[kg]	27				
GSS06	m	[kg]	43	45	50		
GSS07	m	[kg]	72	74	79		87

GSS□□-3M SAK

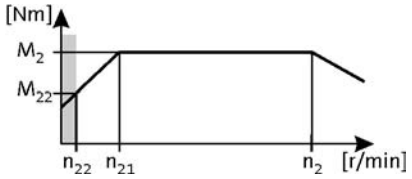
			063C32 063C42	071C32 071C42	080C32	080C42	090C32
GSS05	m	[kg]	31				
GSS06	m	[kg]	50	52	57		
GSS07	m	[kg]	83	85	90		98

► Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

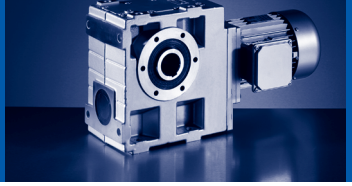
120 Hz: P_N = 0.55 kW

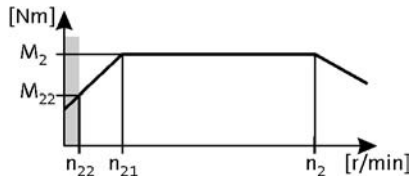
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.3 ... 3440 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
15	61	-	348	9.1	13	6.0	9.897	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
13	55	-	318	10	14	5.2	10.827	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
10	43	-	249	12	18	5.5	13.810	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
9.0	38	-	217	14	20	6.0	15.869	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
8.3	35	-	198	16	22	5.2	17.360	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
6.5	27	-	155	19	29	5.1	22.143	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
5.3	22	-	127	23	35	4.5	27.125	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
4.5	19	-	108	24	39	3.4	31.738	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
4.2	18	-	101	28	44	3.8	34.100	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
3.7	15	-	88	29	47	2.9	39.200	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
3.3	14	-	78	36	57	3.1	43.917	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
2.9	12	-	69	36	60	2.5	50.000	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
2.6	11	-	63	40	66	2.4	54.250	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
2.3	9.8	-	56	44	73	2.2	61.250	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
2.1	8.8	-	50	49	83	2.1	68.200	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
1.9	7.8	-	45	53	91	1.9	77.000	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
1.8	7.5	-	43	56	96	3.1	79.722	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
1.6	6.8	-	39	62	106	1.7	87.833	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
1.6	6.8	-	39	62	108	2.9	87.833	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
1.5	6.1	-	35	68	117	1.5	99.167	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
1.5	6.1	-	35	68	120	2.7	99.167	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
1.3	5.4	-	31	80	134	1.3	111.318	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
1.3	5.3	-	30	81	141	2.5	113.667	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
1.1	4.8	-	27	86	147	1.2	125.682	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
1.1	4.8	-	27	86	165	1.6	125.476	GSS05-3M□□□063C32	E84AV□□□5514□□0	364
1.1	4.7	-	27	89	156	2.3	128.333	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
1.0	4.3	-	25	100	167	1.1	139.500	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
1.0	4.4	-	25	99	172	2.1	137.950	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
0.9	3.8	-	22	109	183	1.0	157.500	GSS04-2M□□□063C32	E84AV□□□5514□□0	356
0.9	3.9	-	22	106	202	1.4	153.708	GSS05-3M□□□063C32	E84AV□□□5514□□0	364
0.9	3.9	-	22	109	191	1.9	155.750	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
0.8	3.4	-	20	128	220	1.6	176.313	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
0.8	3.4	-	20	124	210	2.9	174.375	GSS06-2M□□□063C32	E84AV□□□5514□□0	356
0.7	3.1	-	18	134	251	1.2	193.233	GSS05-3M□□□063C32	E84AV□□□5514□□0	364
0.7	3.1	-	18	141	234	2.9	196.875	GSS06-2M□□□063C32	E84AV□□□5514□□0	356
0.7	3.1	-	18	135	222	3.2	194.857	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.7	3.0	-	17	140	245	1.5	199.063	GSS05-2M□□□063C32	E84AV□□□5514□□0	356
0.7	2.7	-	16	154	268	1.3	222.133	GSS05-3M□□□063C32	E84AV□□□5514□□0	364
0.7	2.7	-	16	154	248	2.8	220.000	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.6	2.4	-	14	175	306	1.2	250.952	GSS05-3M□□□063C32	E84AV□□□5514□□0	364
0.6	2.5	-	14	167	271	2.6	238.700	GSS06-3M□□□063C32	E84AV□□□5514□□0	364





120 Hz: P_N = 0.55 kW

n_{22} / n_2 = 1 ... 24.0

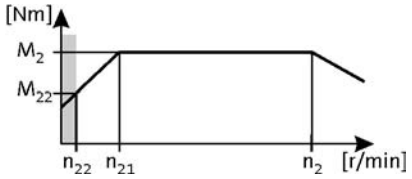
n_1 = 143.3 ... 3440 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.5	2.2	-	13	190	302	2.3	269.500	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.5	2.1	-	12	198	338	1.1	283.333	GSS05-3M□□□063C32	E84AV□□□5514□□0	364
0.5	2.0	-	11	215	371	1.0	307.417	GSS05-3M□□□063C32	E84AV□□□5514□□0	364
0.5	1.9	-	11	220	350	2.0	310.689	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.4	1.7	-	9.8	250	388	1.8	350.778	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.4	1.7	-	9.5	263	412	3.0	363.179	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.4	1.6	-	8.9	276	431	1.7	386.467	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.4	1.5	-	8.7	287	453	2.7	394.245	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.3	1.4	-	7.9	313	480	1.5	436.333	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.3	1.4	-	7.7	326	503	2.4	445.116	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.3	1.2	-	7.0	361	556	2.2	490.403	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.3	1.2	-	6.9	359	550	1.3	497.722	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.3	1.1	-	6.2	409	620	2.0	553.681	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.3	1.1	-	6.1	406	612	1.2	561.944	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.2	1.0	-	5.5	457	689	1.0	630.803	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.2	1.0	-	5.4	472	715	1.7	634.639	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.2	0.8	-	4.8	518	763	0.9	712.197	GSS06-3M□□□063C32	E84AV□□□5514□□0	364
0.2	0.8	-	4.8	535	795	1.6	716.528	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.2	0.7	-	4.1	625	928	1.3	833.556	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.2	0.6	-	3.7	708	1030	1.2	941.111	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.1	0.6	-	3.4	762	1112	1.1	1011.633	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.1	0.5	-	3.0	863	1232	1.0	1142.167	GSS07-3M□□□063C32	E84AV□□□5514□□0	364
0.1	0.5	-	2.8	929	1329	0.9	1227.755	GSS07-3M□□□063C32	E84AV□□□5514□□0	364

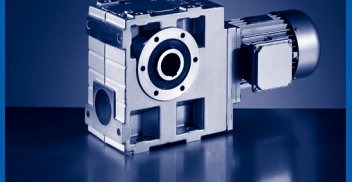
120 Hz: P_N = 0.75 kW

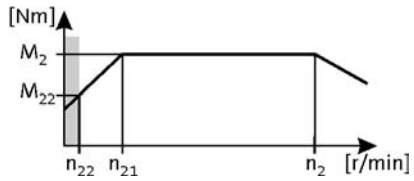
n_{22} / n_2 = 1 ... 24.0

n_1 = 141.7 ... 3400 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
14	61	-	344	13	18	4.3	9.897	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
13	55	-	314	14	20	3.8	10.827	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
10	43	-	246	17	26	4.0	13.810	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
8.9	38	-	214	19	29	4.3	15.869	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
8.2	35	-	196	22	31	3.8	17.360	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
6.4	27	-	154	26	40	3.7	22.143	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
5.2	22	-	125	32	49	3.2	27.125	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
4.5	19	-	107	34	54	2.5	31.738	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
4.2	18	-	100	39	62	2.8	34.100	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
3.6	15	-	87	41	65	2.1	39.200	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
3.2	14	-	77	50	80	2.2	43.917	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
3.2	14	-	77	51	80	3.0	43.917	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
2.8	12	-	68	50	83	1.8	50.000	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
2.8	12	-	68	51	83	3.0	50.000	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
2.6	11	-	63	55	92	1.8	54.250	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
2.3	9.8	-	56	60	101	1.6	61.250	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
2.1	8.8	-	50	68	115	1.5	68.200	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
2.0	8.5	-	48	71	121	2.4	70.611	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
1.8	7.8	-	44	73	127	1.4	77.000	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
1.8	7.5	-	43	78	134	2.2	79.722	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
1.6	6.8	-	39	86	147	1.2	87.833	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
1.6	6.8	-	39	86	151	2.1	87.833	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
1.4	6.1	-	34	93	163	1.1	99.167	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
1.4	6.1	-	34	94	167	1.9	99.167	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
1.3	5.4	-	31	109	186	1.0	111.318	GSS04-2M□□□063C42	E84AV□□□7514□□0	356
1.3	5.3	-	30	112	196	1.8	113.667	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
1.3	5.3	-	30	112	192	3.0	113.667	GSS06-2M□□□063C42	E84AV□□□7514□□0	356
1.1	4.8	-	27	119	229	1.2	125.476	GSS05-3M□□□063C42	E84AV□□□7514□□0	364
1.1	4.7	-	27	123	217	1.6	128.333	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
1.1	4.7	-	27	126	214	3.0	128.333	GSS06-2M□□□063C42	E84AV□□□7514□□0	356
1.0	4.4	-	25	137	238	1.5	137.950	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
1.0	4.4	-	25	136	232	2.6	137.950	GSS06-2M□□□063C42	E84AV□□□7514□□0	356
1.0	4.2	-	24	137	226	3.0	142.857	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.9	3.9	-	22	146	279	1.0	153.708	GSS05-3M□□□063C42	E84AV□□□7514□□0	364
0.9	3.9	-	22	150	265	1.4	155.750	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
0.9	3.9	-	22	153	259	2.6	155.750	GSS06-2M□□□063C42	E84AV□□□7514□□0	356
0.9	3.9	-	22	149	247	2.8	155.000	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.8	3.4	-	20	172	292	2.1	174.375	GSS06-2M□□□063C42	E84AV□□□7514□□0	356
0.8	3.4	-	19	176	305	1.1	176.313	GSS05-2M□□□063C42	E84AV□□□7514□□0	356
0.8	3.4	-	19	169	276	2.6	175.000	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.7	3.0	-	17	193	339	1.1	199.063	GSS05-2M□□□063C42	E84AV□□□7514□□0	356





120 Hz: P_N = 0.75 kW

n_{22} / n_2 = 1 ... 24.0

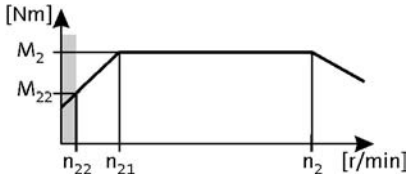
n_1 = 141.7 ... 3400 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.7	3.1	-	17	195	326	2.1	196.875	GSS06-2M□□□063C42	E84AV□□□7514□□0	356
0.7	3.1	-	17	188	310	2.3	194.857	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.6	2.7	-	16	213	345	2.1	220.000	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.6	2.7	-	15	212	372	1.0	222.133	GSS05-3M□□□063C42	E84AV□□□7514□□0	364
0.6	2.5	-	14	232	377	1.9	238.700	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.6	2.4	-	14	244	397	3.1	247.139	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.5	2.2	-	13	262	420	1.7	269.500	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.5	2.2	-	12	277	444	2.8	279.028	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.5	1.9	-	11	304	486	1.5	310.689	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.4	1.9	-	11	321	516	2.4	321.673	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.4	1.7	-	9.7	345	539	1.3	350.778	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.4	1.7	-	9.4	365	574	2.1	363.179	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.4	1.6	-	8.8	381	598	1.2	386.467	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.4	1.5	-	8.6	397	631	2.0	394.245	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.3	1.4	-	7.8	431	666	1.1	436.333	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.3	1.4	-	7.6	451	700	1.8	445.116	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.3	1.2	-	6.9	498	773	1.6	490.403	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.3	1.2	-	6.8	493	762	0.9	497.722	GSS06-3M□□□063C42	E84AV□□□7514□□0	364
0.3	1.1	-	6.1	565	862	1.4	553.681	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.2	1.0	-	5.4	650	993	1.3	634.639	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.2	0.8	-	4.8	736	1104	1.1	716.528	GSS07-3M□□□063C42	E84AV□□□7514□□0	364
0.2	0.7	-	4.1	859	1287	1.0	833.556	GSS07-3M□□□063C42	E84AV□□□7514□□0	364

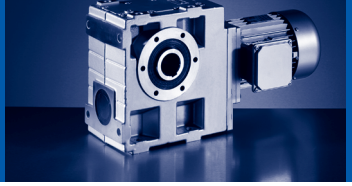
120 Hz: P_N = 1.10 kW

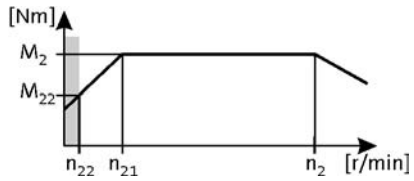
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.4 ... 3490 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
15	61	-	353	18	26	4.3	9.897	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
13	55	-	322	20	28	4.3	10.827	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
11	43	-	253	25	36	4.0	13.810	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
9.2	38	-	220	28	41	3.2	15.869	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
8.4	35	-	201	31	45	3.1	17.360	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
6.6	27	-	158	39	58	2.6	22.143	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
5.4	22	-	129	47	71	2.3	27.125	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
4.6	19	-	110	51	78	1.7	31.738	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
4.6	19	-	110	51	76	2.8	31.738	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
4.3	18	-	102	59	89	1.9	34.100	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
4.1	17	-	99	60	92	3.1	35.306	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
3.7	15	-	89	61	94	1.5	39.200	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
3.7	15	-	89	62	93	2.4	39.200	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
3.3	14	-	80	75	115	1.6	43.917	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
3.3	14	-	80	74	115	2.7	43.917	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
2.9	12	-	70	75	120	1.3	50.000	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
2.9	12	-	70	77	120	2.1	50.000	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
2.7	11	-	64	82	132	1.2	54.250	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
2.7	11	-	64	84	133	2.0	54.250	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
2.4	9.8	-	57	90	146	1.1	61.250	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
2.4	9.8	-	57	92	147	1.8	61.250	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
2.1	8.8	-	51	101	165	1.1	68.200	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
2.1	8.5	-	49	106	174	1.7	70.611	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
1.9	7.8	-	45	109	182	1.0	77.000	GSS04-2M□□□071C32	E84AV□□□1124□□0	356
1.8	7.5	-	44	116	193	1.6	79.722	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
1.8	7.5	-	44	119	192	3.0	79.722	GSS06-2M□□□071C32	E84AV□□□1124□□0	356
1.7	6.8	-	40	129	217	1.5	87.833	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
1.7	6.8	-	40	129	213	2.9	87.833	GSS06-2M□□□071C32	E84AV□□□1124□□0	356
1.5	6.1	-	35	141	241	1.4	99.167	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
1.5	6.1	-	35	145	239	2.6	99.167	GSS06-2M□□□071C32	E84AV□□□1124□□0	356
1.3	5.3	-	31	166	281	1.2	113.667	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
1.3	5.3	-	31	166	276	2.5	113.667	GSS06-2M□□□071C32	E84AV□□□1124□□0	356
1.2	4.7	-	28	182	293	2.3	126.531	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
1.1	4.7	-	27	182	312	1.2	128.333	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
1.1	4.7	-	27	187	309	2.2	128.333	GSS06-2M□□□071C32	E84AV□□□1124□□0	356
1.1	4.4	-	25	203	342	1.1	137.950	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
1.1	4.4	-	25	201	334	2.1	137.950	GSS06-2M□□□071C32	E84AV□□□1124□□0	356
1.0	4.2	-	24	205	327	2.1	142.857	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.9	3.9	-	23	223	357	2.0	155.000	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.9	3.9	-	22	222	380	0.9	155.750	GSS05-2M□□□071C32	E84AV□□□1124□□0	356
0.9	3.9	-	22	228	374	1.9	155.750	GSS06-2M□□□071C32	E84AV□□□1124□□0	356





120 Hz: P_N = 1.10 kW

n_{22} / n_2 = 1 ... 24.0

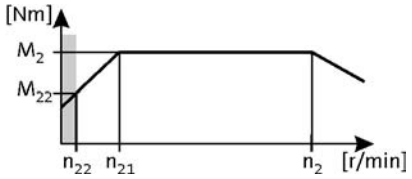
n_1 = 145.4 ... 3490 r/min

n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
0.8	3.4	-	20	255	420	1.7	174.375	GSS06-2M□□□071C32	E84AV□□□1124□□0	356
0.8	3.4	-	20	252	399	1.8	175.000	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.8	3.4	-	20	258	406	3.0	175.000	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.7	3.1	-	18	289	469	1.5	196.875	GSS06-2M□□□071C32	E84AV□□□1124□□0	356
0.8	3.1	-	18	281	446	1.6	194.857	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.7	3.0	-	17	298	470	2.6	201.746	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.7	2.7	-	16	318	497	1.4	220.000	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.6	2.5	-	15	345	543	1.3	238.700	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.6	2.6	-	15	337	526	2.3	227.778	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.6	2.4	-	14	366	574	2.1	247.139	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.5	2.2	-	13	390	605	1.2	269.500	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.5	2.2	-	13	414	641	1.9	279.028	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.5	1.9	-	11	451	699	1.0	310.689	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.5	1.9	-	11	479	744	1.7	321.673	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.4	1.7	-	10	510	775	0.9	350.778	GSS06-3M□□□071C32	E84AV□□□1124□□0	364
0.4	1.7	-	9.6	543	827	1.5	363.179	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.4	1.5	-	8.9	591	908	1.4	394.245	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.3	1.4	-	7.8	669	1006	1.2	445.116	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.3	1.2	-	7.1	739	1112	1.1	490.403	GSS07-3M□□□071C32	E84AV□□□1124□□0	364
0.3	1.1	-	6.3	837	1238	1.0	553.681	GSS07-3M□□□071C32	E84AV□□□1124□□0	364

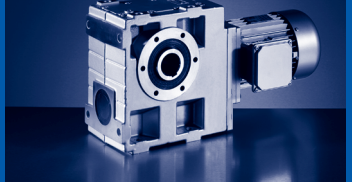
120 Hz: P_N = 1.50 kW

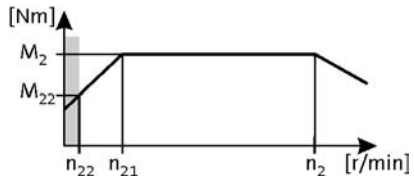
n_{22} / n_2 = 1 ... 24.0

n_1 = 143.8 ... 3450 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
15	61	-	349	26	36	3.1	9.897	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
13	55	-	319	28	40	3.1	10.827	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
10	43	-	250	35	51	2.9	13.810	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
9.1	38	-	217	39	58	2.3	15.869	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
8.3	35	-	199	43	63	2.2	17.360	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
6.5	27	-	156	54	80	1.9	22.143	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
6.5	27	-	156	54	80	3.1	22.143	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
5.3	22	-	127	65	99	1.6	27.125	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
5.3	22	-	127	65	98	2.7	27.125	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
4.5	19	-	109	70	108	1.3	31.738	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
4.5	19	-	109	71	106	2.0	31.738	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
4.2	18	-	101	81	124	1.4	34.100	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
4.1	17	-	98	84	128	2.2	35.306	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
3.7	15	-	88	84	130	1.1	39.200	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
3.7	15	-	88	85	129	1.8	39.200	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
3.3	14	-	79	102	159	1.1	43.917	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
3.3	14	-	79	103	160	1.9	43.917	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
3.3	14	-	79	105	159	2.8	43.917	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
2.9	12	-	69	103	166	0.9	50.000	GSS04-2M□□□071C42	E84AV□□□1524□□0	356
2.9	12	-	69	106	166	1.5	50.000	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
2.9	12	-	69	108	168	2.9	50.000	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
2.7	11	-	64	116	184	1.4	54.250	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
2.4	9.8	-	56	127	205	1.3	61.250	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
2.0	8.5	-	49	146	241	1.2	70.611	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
2.0	8.5	-	49	147	239	2.4	70.611	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
1.8	7.5	-	43	160	267	1.1	79.722	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
1.8	7.5	-	43	165	268	2.2	79.722	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
1.6	6.8	-	39	177	300	1.1	87.833	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
1.6	6.8	-	39	179	297	2.1	87.833	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
1.5	6.1	-	35	193	333	1.0	99.167	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
1.5	6.1	-	35	201	333	1.9	99.167	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
1.3	5.3	-	30	229	390	0.9	113.667	GSS05-2M□□□071C42	E84AV□□□1524□□0	356
1.3	5.3	-	30	230	384	1.8	113.667	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
1.1	4.7	-	27	259	429	1.6	128.333	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
1.1	4.7	-	27	251	407	1.7	126.531	GSS06-3M□□□071C42	E84AV□□□1524□□0	364
1.1	4.7	-	27	260	412	3.0	126.531	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
1.0	4.4	-	25	278	464	1.5	137.950	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
1.0	4.2	-	24	283	455	1.5	142.857	GSS06-3M□□□071C42	E84AV□□□1524□□0	364
1.0	4.2	-	24	293	462	2.7	142.857	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.9	3.9	-	22	308	497	1.4	155.000	GSS06-3M□□□071C42	E84AV□□□1524□□0	364
0.9	3.9	-	22	314	519	1.4	155.750	GSS06-2M□□□071C42	E84AV□□□1524□□0	356





120 Hz: P_N = 1.50 kW

n_{22} / n_2 = 1 ... 24.0

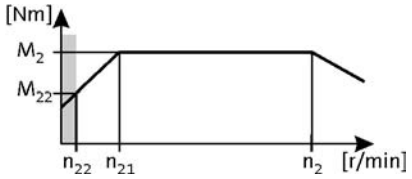
n_1 = 143.8 ... 3450 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.9	-	22	318	504	2.4	155.000	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.8	3.4	-	20	351	583	1.2	174.375	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
0.8	3.4	-	20	347	553	1.3	175.000	GSS06-3M□□□071C42	E84AV□□□1524□□0	364
0.8	3.4	-	20	358	565	2.2	175.000	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.7	3.1	-	18	397	650	1.1	196.875	GSS06-2M□□□071C42	E84AV□□□1524□□0	356
0.7	3.1	-	18	387	619	1.2	194.857	GSS06-3M□□□071C42	E84AV□□□1524□□0	364
0.7	3.0	-	17	413	654	1.9	201.746	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.7	2.7	-	16	437	690	1.0	220.000	GSS06-3M□□□071C42	E84AV□□□1524□□0	364
0.6	2.5	-	15	474	752	1.0	238.700	GSS06-3M□□□071C42	E84AV□□□1524□□0	364
0.6	2.6	-	15	465	732	1.7	227.778	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.6	2.4	-	14	504	798	1.6	247.139	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.5	2.2	-	12	570	891	1.4	279.028	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.5	1.9	-	11	660	1033	1.2	321.673	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.4	1.7	-	9.5	747	1147	1.1	363.179	GSS07-3M□□□071C42	E84AV□□□1524□□0	364
0.4	1.5	-	8.8	813	1259	1.0	394.245	GSS07-3M□□□071C42	E84AV□□□1524□□0	364

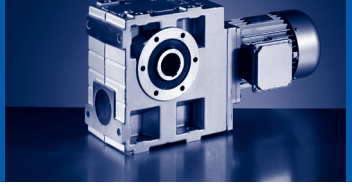
120 Hz: P_N = 2.20 kW

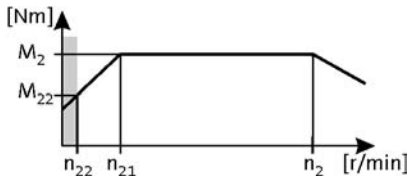
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.8 ... 3500 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
15	61	-	354	37	53	2.2	9.897	GSS04-2M□□□080C32	E84AV□□□2224□□0	356
14	55	-	323	41	58	2.1	10.827	GSS04-2M□□□080C32	E84AV□□□2224□□0	356
14	55	-	323	40	58	3.2	10.827	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
11	43	-	253	51	74	2.0	13.810	GSS04-2M□□□080C32	E84AV□□□2224□□0	356
11	43	-	253	51	74	3.0	13.810	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
9.2	38	-	221	57	84	1.6	15.869	GSS04-2M□□□080C32	E84AV□□□2224□□0	356
9.2	38	-	221	56	83	2.6	15.869	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
8.4	35	-	202	62	92	1.5	17.360	GSS04-2M□□□080C32	E84AV□□□2224□□0	356
8.4	35	-	202	62	91	2.5	17.360	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
6.6	27	-	158	78	117	1.3	22.143	GSS04-2M□□□080C32	E84AV□□□2224□□0	356
6.6	27	-	158	78	116	2.1	22.143	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
5.4	22	-	129	94	143	1.1	27.125	GSS04-2M□□□080C32	E84AV□□□2224□□0	356
5.4	22	-	129	95	143	1.8	27.125	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
4.6	19	-	110	103	155	1.4	31.738	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
4.6	19	-	110	102	158	2.3	31.738	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
4.1	17	-	99	121	187	1.5	35.306	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
4.1	17	-	99	120	185	3.1	35.306	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
3.7	15	-	89	124	188	1.2	39.200	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
3.7	15	-	89	126	193	2.1	39.200	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
3.3	14	-	80	148	233	1.3	43.917	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
3.3	14	-	80	148	231	2.7	43.917	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
2.9	12	-	70	153	242	1.0	50.000	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
2.9	12	-	70	157	246	2.0	50.000	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
2.9	12	-	70	161	248	3.0	50.000	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
2.7	11	-	65	167	268	1.0	54.250	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
2.7	11	-	65	169	269	2.0	54.250	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
2.4	9.8	-	57	184	297	0.9	61.250	GSS05-2M□□□080C32	E84AV□□□2224□□0	356
2.4	9.8	-	57	190	301	1.8	61.250	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
2.1	8.5	-	50	214	349	1.7	70.611	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
2.1	8.5	-	50	223	352	2.8	70.611	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
1.8	7.5	-	44	240	391	1.5	79.722	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
1.8	7.5	-	44	250	394	2.7	79.722	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
1.7	6.8	-	40	260	433	1.5	87.833	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
1.7	6.9	-	40	269	432	2.7	86.542	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
1.5	6.1	-	36	302	484	2.4	97.708	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
1.5	6.1	-	35	291	485	1.3	99.167	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
1.3	5.3	-	31	332	559	1.2	113.667	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
1.3	5.3	-	31	347	567	2.2	113.667	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
1.2	4.7	-	28	363	593	1.2	126.531	GSS06-3M□□□080C32	E84AV□□□2224□□0	364
1.2	4.7	-	28	379	602	2.1	126.531	GSS07-3M□□□080C32	E84AV□□□2224□□0	364
1.1	4.7	-	27	374	625	1.1	128.333	GSS06-2M□□□080C32	E84AV□□□2224□□0	356





120 Hz: P_N = 2.20 kW

n_{22} / n_2 = 1 ... 24.0

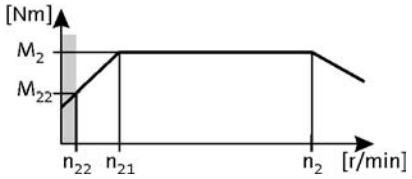
n_1 = 145.8 ... 3500 r/min

n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.1	4.7	-	27	391	635	1.9	128.333	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
1.1	4.4	-	25	401	675	1.1	137.950	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
1.0	4.2	-	25	409	662	1.1	142.857	GSS06-3M□□□080C32	E84AV□□□2224□□0	364
1.1	4.4	-	25	417	687	1.8	137.950	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
1.0	4.2	-	25	426	674	1.8	142.857	GSS07-3M□□□080C32	E84AV□□□2224□□0	364
0.9	3.9	-	23	453	754	1.0	155.750	GSS06-2M□□□080C32	E84AV□□□2224□□0	356
0.9	3.9	-	23	444	722	1.0	155.000	GSS06-3M□□□080C32	E84AV□□□2224□□0	364
0.9	3.9	-	23	471	770	1.6	155.750	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
0.9	3.9	-	23	461	735	1.7	155.000	GSS07-3M□□□080C32	E84AV□□□2224□□0	364
0.8	3.4	-	20	522	864	1.4	174.375	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
0.8	3.4	-	20	519	824	1.5	175.000	GSS07-3M□□□080C32	E84AV□□□2224□□0	364
0.7	3.1	-	18	592	968	1.3	196.875	GSS07-2M□□□080C32	E84AV□□□2224□□0	356
0.7	3.0	-	17	597	952	1.3	201.746	GSS07-3M□□□080C32	E84AV□□□2224□□0	364
0.6	2.6	-	15	672	1065	1.2	227.778	GSS07-3M□□□080C32	E84AV□□□2224□□0	364
0.6	2.4	-	14	728	1160	1.1	247.139	GSS07-3M□□□080C32	E84AV□□□2224□□0	364
0.5	2.2	-	13	822	1295	1.0	279.028	GSS07-3M□□□080C32	E84AV□□□2224□□0	364

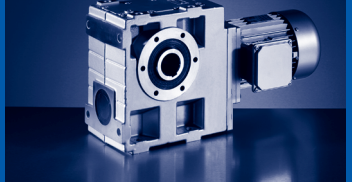
120 Hz: P_N = 3.00 kW

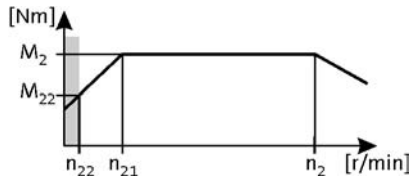
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
15	91	-	352	52	73	1.6	9.897	GSS04-2M□□□080C42	E84AV□□□3024□□S	356
15	91	-	352	51	73	2.4	9.897	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
13	83	-	321	56	80	1.6	10.827	GSS04-2M□□□080C42	E84AV□□□3024□□S	356
13	83	-	321	56	80	2.4	10.827	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
11	65	-	252	71	102	1.5	13.810	GSS04-2M□□□080C42	E84AV□□□3024□□S	356
11	65	-	252	71	102	2.2	13.810	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
9.1	57	-	219	79	116	1.2	15.869	GSS04-2M□□□080C42	E84AV□□□3024□□S	356
9.1	57	-	219	79	114	1.9	15.869	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
9.1	57	-	219	79	115	2.8	15.869	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
8.4	52	-	201	86	127	1.1	17.360	GSS04-2M□□□080C42	E84AV□□□3024□□S	356
8.4	52	-	201	86	125	1.8	17.360	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
8.4	52	-	201	86	126	2.8	17.360	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
6.6	41	-	157	108	161	1.0	22.143	GSS04-2M□□□080C42	E84AV□□□3024□□S	356
6.6	41	-	157	108	161	1.5	22.143	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
6.6	41	-	157	108	161	2.6	22.143	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
5.4	33	-	128	131	197	1.3	27.125	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
5.4	33	-	128	131	197	2.4	27.125	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
4.6	28	-	110	143	213	1.0	31.738	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
4.6	28	-	110	144	218	1.7	31.738	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
4.1	26	-	99	168	258	1.1	35.306	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
4.1	26	-	99	168	256	2.3	35.306	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
3.7	23	-	89	176	267	1.6	39.200	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
3.4	21	-	80	212	314	2.8	43.271	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
3.3	21	-	79	205	321	1.0	43.917	GSS05-2M□□□080C42	E84AV□□□3024□□S	356
3.3	21	-	79	207	319	1.9	43.917	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
2.9	18	-	70	219	340	1.5	50.000	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
2.9	18	-	70	226	343	2.2	50.000	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
2.7	17	-	64	235	371	1.4	54.250	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
2.4	15	-	57	263	415	1.3	61.250	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
2.1	13	-	49	297	481	1.2	70.611	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
2.1	13	-	49	311	488	2.1	70.611	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
1.8	11	-	44	333	539	1.1	79.722	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
1.8	11	-	44	349	545	2.0	79.722	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
1.7	10	-	40	360	597	1.1	87.833	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
1.7	10	-	40	374	597	1.9	86.542	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
1.5	9.2	-	36	419	668	1.8	97.708	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
1.5	9.1	-	35	403	668	1.0	99.167	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
1.3	7.9	-	31	459	770	0.9	113.667	GSS06-2M□□□080C42	E84AV□□□3024□□S	356
1.3	7.9	-	31	481	783	1.6	113.667	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
1.2	7.1	-	28	526	831	1.5	126.531	GSS07-3M□□□080C42	E84AV□□□3024□□S	364
1.1	7.0	-	27	542	876	1.4	128.333	GSS07-2M□□□080C42	E84AV□□□3024□□S	356





120 Hz: P_N = 3.00 kW

n_{22} / n_2 = 1 ... 24.0

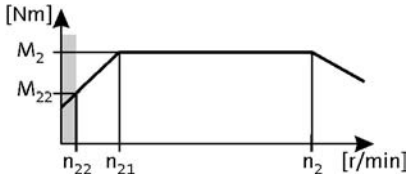
n_1 = 145.0 ... 3480 r/min

n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
1.1	6.5	-	25	578	947	1.3	137.950	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
1.0	6.3	-	24	591	930	1.3	142.857	GSS07-3M□□□080C42	E84AV□□□3024□□S	364
0.9	5.8	-	23	639	1014	1.2	155.000	GSS07-3M□□□080C42	E84AV□□□3024□□S	364
0.9	5.8	-	22	652	1061	1.2	155.750	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
0.8	5.2	-	20	722	1191	1.0	174.375	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
0.8	5.1	-	20	718	1136	1.1	175.000	GSS07-3M□□□080C42	E84AV□□□3024□□S	364
0.7	4.6	-	18	818	1333	0.9	196.875	GSS07-2M□□□080C42	E84AV□□□3024□□S	356
0.7	4.5	-	17	825	1311	1.0	201.746	GSS07-3M□□□080C42	E84AV□□□3024□□S	364

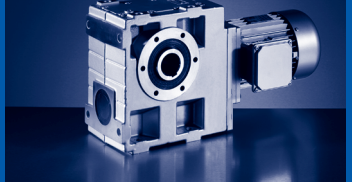
120 Hz: P_N = 4.00 kW

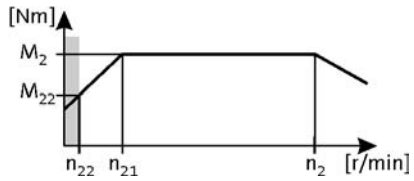
n_{22} / n_2 = 1 ... 24.0

n_1 = 145.0 ... 3480 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
15	61	-	352	65	98	1.2	9.897	GSS04-2M□□□090C32	E84AV□□□4024□□0	356
15	61	-	352	64	98	1.8	9.897	GSS05-2M□□□090C32	E84AV□□□4024□□0	356
14	59	-	340	67	101	2.8	10.238	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
13	55	-	321	70	107	1.2	10.827	GSS04-2M□□□090C32	E84AV□□□4024□□0	356
13	55	-	321	71	107	1.8	10.827	GSS05-2M□□□090C32	E84AV□□□4024□□0	356
13	54	-	311	73	110	2.7	11.200	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
11	43	-	252	89	137	1.1	13.810	GSS04-2M□□□090C32	E84AV□□□4024□□0	356
11	43	-	252	89	137	1.6	13.810	GSS05-2M□□□090C32	E84AV□□□4024□□0	356
10	42	-	244	91	142	2.5	14.286	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
9.1	38	-	219	99	153	1.4	15.869	GSS05-2M□□□090C32	E84AV□□□4024□□0	356
9.1	38	-	219	99	155	2.1	15.869	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
8.4	35	-	201	108	168	1.4	17.360	GSS05-2M□□□090C32	E84AV□□□4024□□0	356
8.4	35	-	201	107	169	2.1	17.360	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
6.6	27	-	157	136	215	1.2	22.143	GSS05-2M□□□090C32	E84AV□□□4024□□0	356
6.6	27	-	157	135	216	1.9	22.143	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
6.6	27	-	157	139	215	2.9	22.143	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
5.4	22	-	128	164	264	1.0	27.125	GSS05-2M□□□090C32	E84AV□□□4024□□0	356
5.4	22	-	128	165	264	1.8	27.125	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
4.6	19	-	110	181	292	1.3	31.738	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
4.1	17	-	99	211	344	1.7	35.306	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
4.1	17	-	99	217	344	2.6	35.306	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
3.7	15	-	89	221	357	1.2	39.200	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
3.4	14	-	80	263	421	2.4	43.271	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
3.3	14	-	79	259	427	1.5	43.917	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
2.9	12	-	70	275	455	1.1	50.000	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
2.9	12	-	70	285	460	1.7	50.000	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
2.7	11	-	64	295	497	1.1	54.250	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
2.4	9.8	-	57	330	556	1.0	61.250	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
2.1	8.5	-	49	372	644	0.9	70.611	GSS06-2M□□□090C32	E84AV□□□4024□□0	356
2.1	8.5	-	49	391	654	1.6	70.611	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
1.8	7.5	-	44	438	731	1.5	79.722	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
1.7	6.9	-	40	469	801	1.5	86.542	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
1.5	6.1	-	36	526	896	1.3	97.708	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
1.3	5.3	-	31	603	1049	1.2	113.667	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
1.2	4.7	-	28	658	1113	1.1	126.531	GSS07-3M□□□090C32	E84AV□□□4024□□0	364
1.1	4.7	-	27	678	1173	1.1	128.333	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
1.1	4.4	-	25	723	1268	1.0	137.950	GSS07-2M□□□090C32	E84AV□□□4024□□0	356
1.0	4.2	-	24	739	1246	1.0	142.857	GSS07-3M□□□090C32	E84AV□□□4024□□0	364
0.9	3.9	-	23	799	1357	0.9	155.000	GSS07-3M□□□090C32	E84AV□□□4024□□0	364





120 Hz: P_N = 5.50 kW

n_{22} / n_2 = 1 ... 24.0

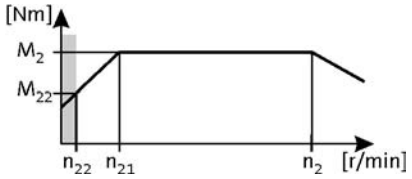
n_1 = 146.9 ... 3525 r/min

n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
15	61	-	356	89	133	1.3	9.897	GSS05-2M□□□100C12	E84AV□□□5524□□0	356
15	60	-	353	88	135	3.0	10.000	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
14	59	-	344	91	138	2.0	10.238	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
14	55	-	326	97	146	1.3	10.827	GSS05-2M□□□100C12	E84AV□□□5524□□0	356
13	54	-	315	99	151	2.0	11.200	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
13	54	-	315	98	151	3.0	11.200	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
11	43	-	255	122	187	1.2	13.810	GSS05-2M□□□100C12	E84AV□□□5524□□0	356
10	42	-	247	126	194	1.8	14.286	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
10	42	-	247	125	194	2.8	14.286	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
9.5	39	-	227	131	206	2.4	15.500	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
9.3	38	-	222	136	208	1.1	15.869	GSS05-2M□□□100C12	E84AV□□□5524□□0	356
9.3	38	-	222	135	211	1.6	15.869	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
8.5	35	-	203	148	229	1.0	17.360	GSS05-2M□□□100C12	E84AV□□□5524□□0	356
8.5	35	-	203	148	231	1.5	17.360	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
8.5	35	-	203	146	231	2.3	17.360	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
6.6	27	-	159	187	295	1.4	22.143	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
6.6	27	-	159	187	295	2.1	22.143	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
5.4	22	-	130	227	361	1.4	27.125	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
5.4	22	-	130	229	361	2.0	27.125	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
4.7	19	-	114	249	392	1.4	31.000	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
4.6	19	-	111	249	398	0.9	31.738	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
4.2	17	-	100	290	469	1.2	35.306	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
4.2	17	-	100	297	470	1.9	35.306	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
3.8	15	-	90	313	492	1.3	39.200	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
3.4	14	-	82	360	576	1.8	43.271	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
3.3	14	-	80	355	583	1.1	43.917	GSS06-2M□□□100C12	E84AV□□□5524□□0	356
2.9	12	-	71	393	628	1.2	50.000	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
2.7	11	-	65	422	687	1.2	54.250	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
2.4	9.8	-	58	474	768	1.2	61.250	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
2.1	8.5	-	50	537	892	1.1	70.611	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
1.8	7.5	-	44	601	997	1.1	79.722	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
1.7	6.9	-	41	644	1092	1.1	86.542	GSS07-2M□□□100C12	E84AV□□□5524□□0	356
1.5	6.1	-	36	720	1221	1.0	97.708	GSS07-2M□□□100C12	E84AV□□□5524□□0	356

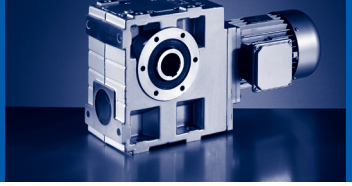
120 Hz: P_N = 7.50 kW

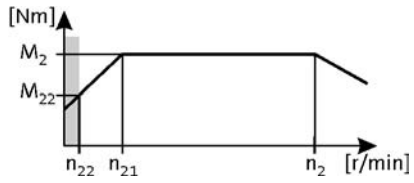
n_{22} / n_2 = 1 ... 24.0

n_1 = 146.5 ... 3515 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
15	61	-	355	122	183	1.0	9.897	GSS05-2M□□□100C32	E84AV□□□7524□□0	356
15	60	-	352	123	186	2.2	10.000	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
14	59	-	343	126	190	1.5	10.238	GSS06-2M□□□100C32	E84AV□□□7524□□0	356
14	55	-	325	133	201	1.0	10.827	GSS05-2M□□□100C32	E84AV□□□7524□□0	356
13	54	-	314	138	208	1.5	11.200	GSS06-2M□□□100C32	E84AV□□□7524□□0	356
13	54	-	314	137	209	2.2	11.200	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
10	42	-	246	174	266	1.3	14.286	GSS06-2M□□□100C32	E84AV□□□7524□□0	356
10	42	-	246	175	267	2.0	14.286	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
9.5	39	-	227	184	283	1.7	15.500	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
9.2	38	-	222	187	290	1.1	15.869	GSS06-2M□□□100C32	E84AV□□□7524□□0	356
8.4	35	-	203	205	318	1.1	17.360	GSS06-2M□□□100C32	E84AV□□□7524□□0	356
8.4	35	-	203	205	318	1.7	17.360	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
6.6	27	-	159	258	405	1.0	22.143	GSS06-2M□□□100C32	E84AV□□□7524□□0	356
6.6	27	-	159	261	406	1.6	22.143	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
5.4	22	-	130	313	496	1.0	27.125	GSS06-2M□□□100C32	E84AV□□□7524□□0	356
5.4	22	-	130	319	497	1.5	27.125	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
4.7	19	-	113	346	538	1.1	31.000	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
4.2	17	-	100	400	644	0.9	35.306	GSS06-2M□□□100C32	E84AV□□□7524□□0	356
4.2	17	-	100	411	647	1.4	35.306	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
3.7	15	-	90	434	676	1.0	39.200	GSS07-2M□□□100C32	E84AV□□□7524□□0	356
3.4	14	-	81	498	791	1.3	43.271	GSS07-2M□□□100C32	E84AV□□□7524□□0	356





120 Hz: P_N = 11.00 kW

n_{22} / n_2 = 1 ... 24.0

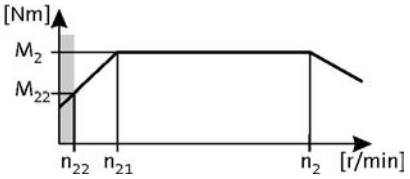
n_1 = 147.1 ... 3530 r/min

n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
15	60	-	353	166	274	1.5	10.000	GSS07-2M□□□112C22	E84AV□□□1134□□0	356
14	59	-	345	170	278	1.0	10.238	GSS06-2M□□□112C22	E84AV□□□1134□□0	356
13	54	-	315	186	305	1.0	11.200	GSS06-2M□□□112C22	E84AV□□□1134□□0	356
13	54	-	315	186	307	1.5	11.200	GSS07-2M□□□112C22	E84AV□□□1134□□0	356
10	42	-	247	235	390	0.9	14.286	GSS06-2M□□□112C22	E84AV□□□1134□□0	356
10	42	-	247	237	392	1.4	14.286	GSS07-2M□□□112C22	E84AV□□□1134□□0	356
9.5	39	-	228	249	416	1.2	15.500	GSS07-2M□□□112C22	E84AV□□□1134□□0	356
8.5	35	-	203	279	467	1.1	17.360	GSS07-2M□□□112C22	E84AV□□□1134□□0	356
6.6	27	-	159	354	596	1.1	22.143	GSS07-2M□□□112C22	E84AV□□□1134□□0	356
5.4	22	-	130	430	729	1.0	27.125	GSS07-2M□□□112C22	E84AV□□□1134□□0	356
4.2	17	-	100	553	949	0.9	35.306	GSS07-2M□□□112C22	E84AV□□□1134□□0	356

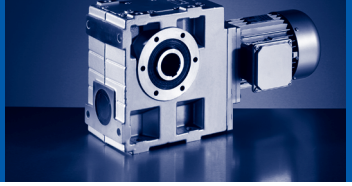
120 Hz: P_N = 15.00 kW

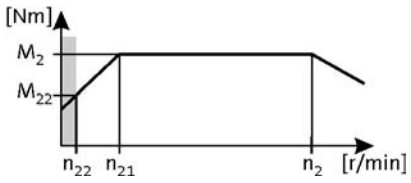
n_{22} / n_2 = 1 ... 24.0

n_1 = 148.3 ... 3560 r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
15	60	-	356	225	371	1.1	10.000	GSS07-2M□□□132C12	E84AV□□□1534□□0	356
13	54	-	318	253	416	1.1	11.200	GSS07-2M□□□132C12	E84AV□□□1534□□0	356
10	42	-	249	322	532	1.0	14.286	GSS07-2M□□□132C12	E84AV□□□1534□□0	356





120 Hz: P_N = 18.50 kW

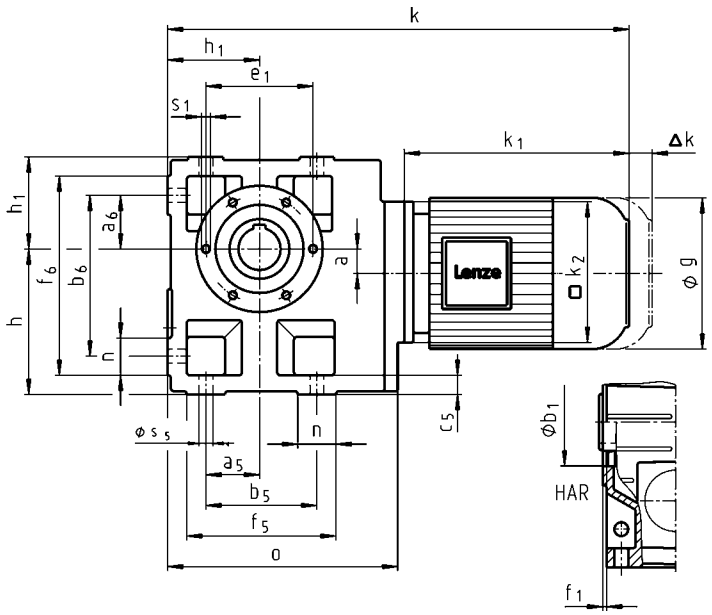
n_{22} / n_2 = 1 ... 24.0

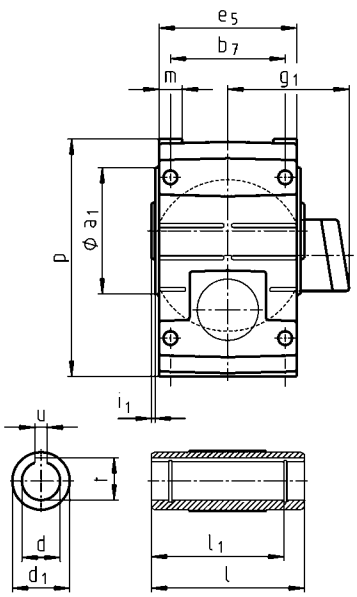
n_1 = 148.3 ... 3560 r/min

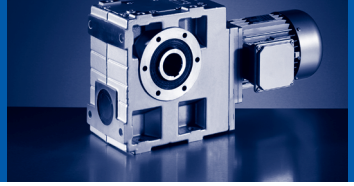
n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
15	60	-	356	280	459	0.9	10.000	GSS07-2M□□□132C22	E84AV□□□1834□□0	356

7

GSS□□-2M H□R


k
h1
e1
s1
k1
Δk
h1
a6
f6
b6
l
h
n
a
Lenze
k2
ø g
c5
ø s5
n
a5
b5
f5
o
ø b1
HAR
f1


e5
b7
m
g1
p
ø a1
i1
u
t
d
d1
l1
l



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22
g		123	139	156	176	194	218	258
g_1	MFEMAXX	100	109	141	146	157	167	195
	MFEMABR	107	118	132	137	147	158	187
k_1	MFEMAXX	187	207	224.5	274	324	363	403
k_2		120		145	180		222	265
Δ k	MFEMABR	40	52	73	68	76	90	109.5
	MFFMAXX	128				109	102	115
	MFFMABR	170	165	183	181	170	183	201.5
		k						
GSS04		377	397	420	479			
GSS05		399	419	441	501	551		
GSS06		439	459	481	541	591	636	
GSS07				524	584	634	679	727

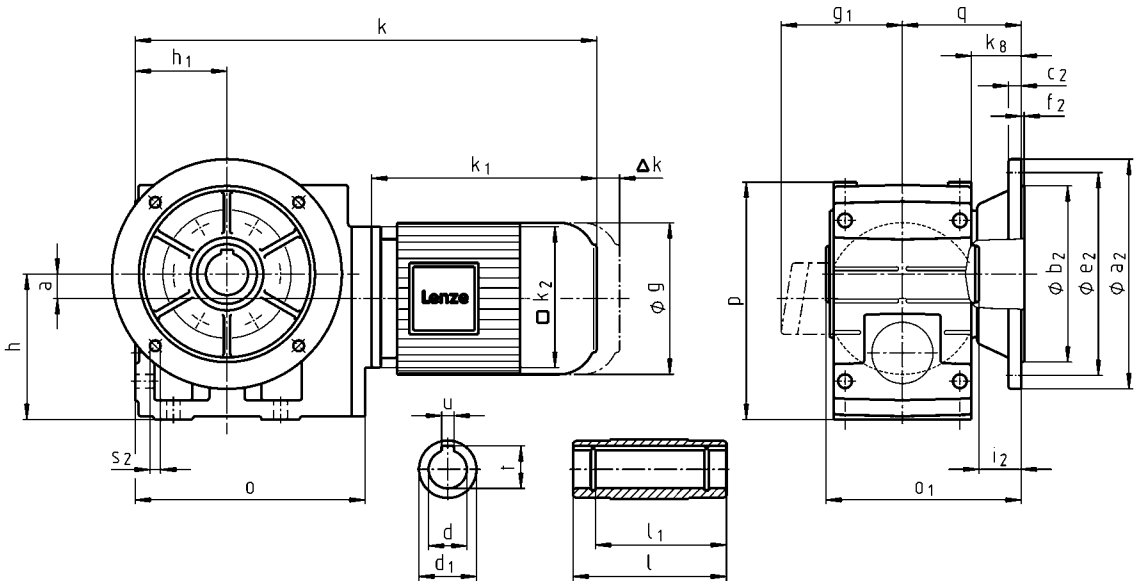
	a	h[1)]	h_1	o	p[1)]
GSS04	20	100	71	181	171
GSS05	23	125	80	212	205
GSS06	26	150	100	255	250
GSS07	33	190	120	305	310

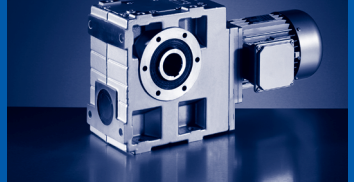
	d	d_1	l[1)]	l_1	u	t	i_1	a_1	b_1	e_1	f_1	s_1
	H7				JS9	+0,2			H7			
GSS04	25 30	45 45	115 115	100 100	8 8	28.3 33.3	2.5 2.5	104	75	90	3	M6x12
GSS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	4 4	118	80	100	4	M8x15
GSS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	5 5	140	100	120	4	M10x16
GSS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	5 5	165	115	140	5	M12x18

	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	m	n	s_5
GSS04	45	45	90	119	85	14	100	112	141	20	22	9
GSS05	47.5	47.5	95	140	105	17	127	124	169	21	29	11
GSS06	60	60	120	170	120	20	145	156	206	23	36	14
GSS07	70	70	140	210	150	25	180	185	255	28	45	18

[1)] k_2 !

GSS□□-2M HAK


k
h1
k1
Δk
a
h
Lenze
□k2
ϕg
s2
o
u
t
d
d1
l1
l
g1
q
k8
c2
f2
p
ϕb2
ϕe2
ϕa2
i2
o1



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22
g		123	139	156	176	194	218	258
g_1	MFEMAXX	100	109	141	146	157	167	195
	MFEMABR	107	118	132	137	147	158	187
k_1	MFEMAXX	187	207	224.5	274	324	363	403
k_2		120		145	180		222	265
Δ k	MFEMABR	40	52	73	68	76	90	109.5
	MFFMAXX	128				109	102	115
	MFFMABR	170	165	183	181	170	183	201.5
		k						
GSS04		377	397	420	479			
GSS05		399	419	441	501	551		
GSS06		439	459	481	541	591	636	
GSS07				524	584	634	679	727

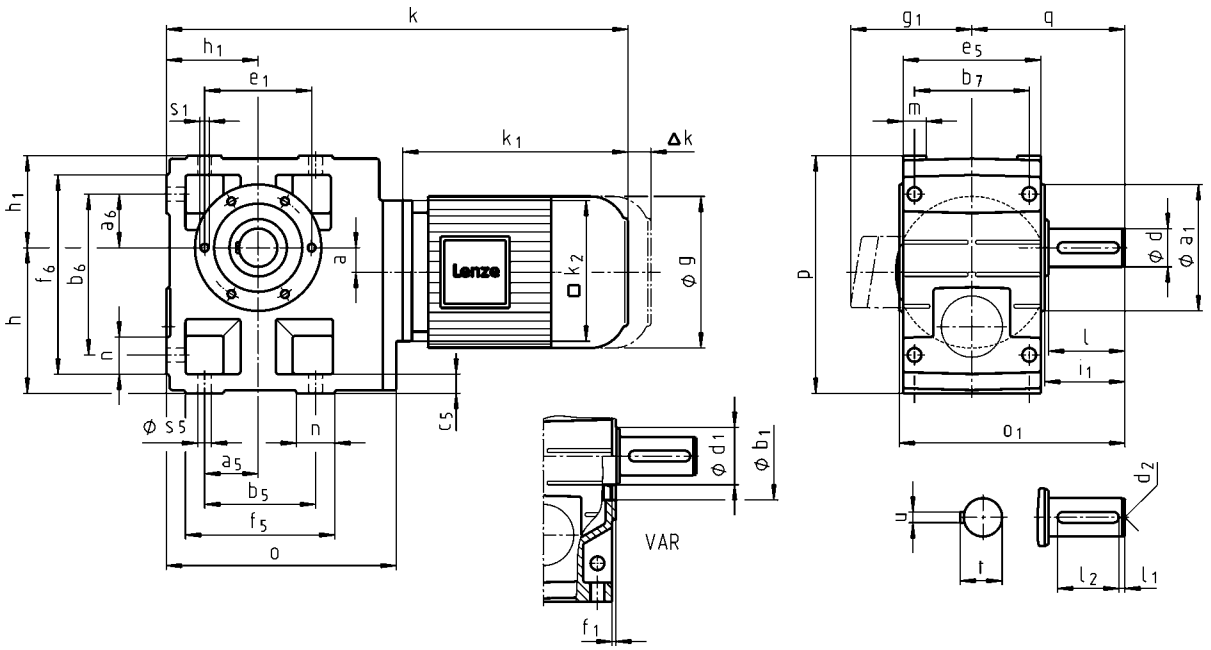
	a	h[1)]	h_1	k_8	o	p[1)]	q
GSS04	20	100	71	41	181	171	91
GSS05	23	125	80	40	212	205	103.5
GSS06	26	150	100	49	255	250	121.5
GSS07	33	190	120	65.5	305	310	155.5

	d	d_1	l	l_1	u	t	i_2	o_1[1)]	a_2	b_2	c_2	e_2	f_2	s_2
	H7				JS9	+0,2				j7				
GSS04	25 30	45 45	115 115	100 100	8 8	28.3 33.3	33 33	148.5 148.5	160	110	10	130	3.5	4 x 9
GSS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	33 33	173.5 173.5	200	130	12	165	4	4 x 11
GSS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	42 41	201.5 201.5	250	180	15	215	4	4 x 14
GSS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	55 55	255.5 255.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14

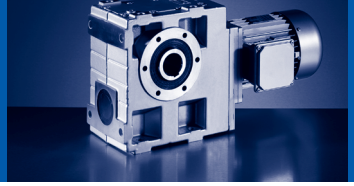
[1)] k_2 !

7

GSS□□-2M V□R


k
h1
e1
s1
k1
Δk
h1
a6
f6
b6
l
h
n
a
Lenze
□k2
ϕ g
c5
ϕ s5
n
a5
b5
f5
o
ϕ d1
ϕ b1
VAR
f1
g1
q
e5
b7
m
p
ϕ d
ϕ a1
l
i1
o1
d2
u
t
l2
l1

7



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22
g		123	139	156	176	194	218	258
g_1	MFEMAXX	100	109	141	146	157	167	195
	MFEMABR	107	118	132	137	147	158	187
k_1	MFEMAXX	187	207	224.5	274	324	363	403
k_2		120		145	180		222	265
Δ k	MFEMABR	40	52	73	68	76	90	109.5
	MFFMAXX	128				109	102	115
	MFFMABR	170	165	183	181	170	183	201.5
		k						
GSS04		377	397	420	479			
GSS05		399	419	441	501	551		
GSS06		439	459	481	541	591	636	
GSS07				524	584	634	679	727

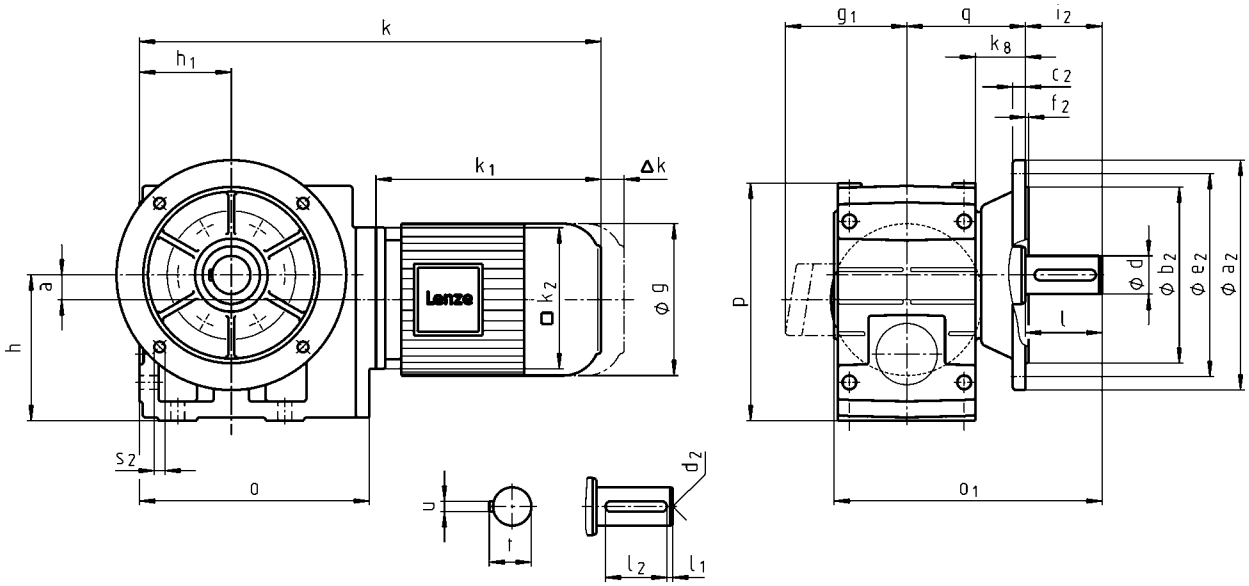
	a	h[1)]	h_1	o	p[1)]	q
GSS04	20	100	71	181	171	107.5
GSS05	23	125	80	212	205	130
GSS06	26	150	100	255	250	160
GSS07	33	190	120	305	310	200

	d	d_1	d_2	l	l_1	l_2	u	t	i_1	o_1[1)]	a_1	b_1	e_1	f_1	s_1
	k6											H7			
GSS04	25	45	M10	50	6	40	8	28	52.5	162.5	104	75	90	3	M6x12
GSS05	30	45	M10	60	6	45	8	33	64	196.5	118	80	100	4	M8x15
GSS06	40	65	M16	80	7	63	12	43	85	235.5	140	100	120	4	M10x16
GSS07	50	75	M16	100	8	80	14	53.5	105	295.5	165	115	140	5	M12x18

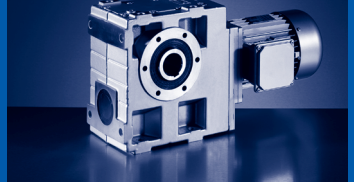
	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	m	n	s_5
GSS04	45	45	90	119	85	14	100	112	141	20	22	9
GSS05	47.5	47.5	95	140	105	17	127	124	169	21	29	11
GSS06	60	60	120	170	120	20	145	156	206	23	36	14
GSS07	70	70	140	210	150	25	180	185	255	28	45	18

[1)] k_2 !

GSS□□-2M VAK


k
h1
k1
Δk
a
h
Lenze
k2
ϕ g
s2
o
u
t
d2
l2
l1
g1
q
i2
k8
c2
f2
p
ϕ d
ϕ b2
ϕ e2
ϕ a2
l
o1

7



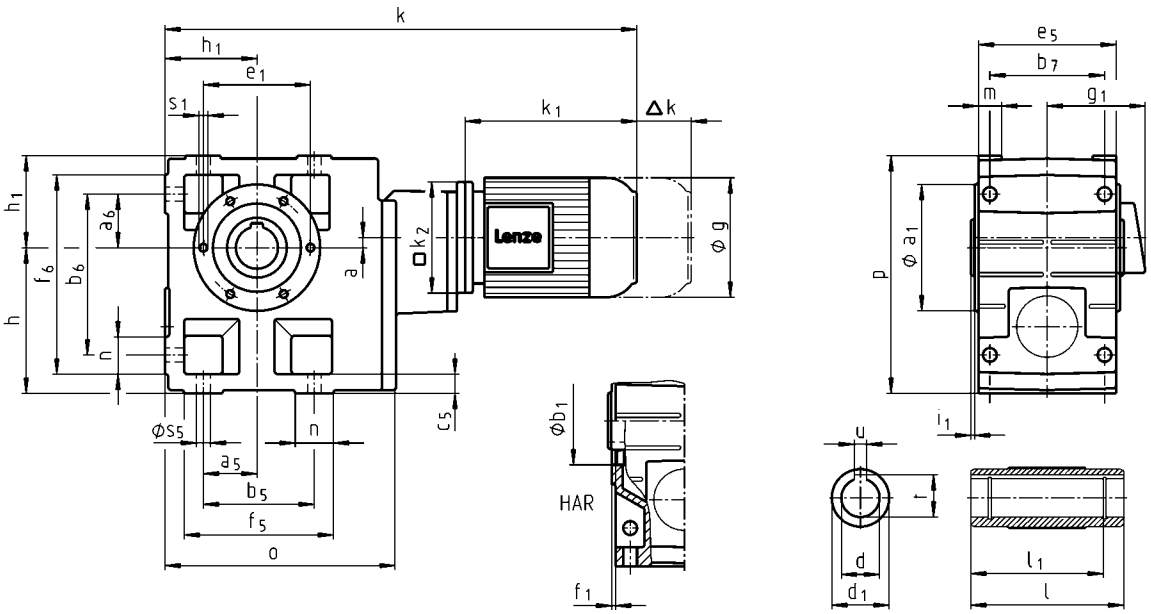
		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22
g		123	139	156	176	194	218	258
g_1	MFEMAXX	100	109	141	146	157	167	195
	MFEMABR	107	118	132	137	147	158	187
k_1	MFEMAXX	187	207	224.5	274	324	363	403
k_2		120		145	180		222	265
Δ k	MFEMABR	40	52	73	68	76	90	109.5
	MFFMAXX	128				109	102	115
	MFFMABR	170	165	183	181	170	183	201.5
		k						
GSS04		377	397	420	479			
GSS05		399	419	441	501	551		
GSS06		439	459	481	541	591	636	
GSS07				524	584	634	679	727

	a	h[1)]	h_1	k_8	o	p[1)]	q
GSS04	20	100	71	41	181	171	91
GSS05	23	125	80	40	212	205	103.5
GSS06	26	150	100	49	255	250	121.5
GSS07	33	190	120	65.5	305	310	155.5

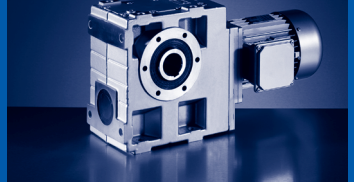
	d	d_2	l	l_1	l_2	u	t	i_2	o_1[1)]	a_2	b_2	c_2	e_2	f_2	s_2
	k6										j7				
GSS04	25	M10	50	6	40	8	28	50	195.5	160	110	10	130	3.5	4 x 9
GSS05	30	M10	60	6	45	8	33	60	229.5	200	130	12	165	4	4 x 11
GSS06	40	M16	80	7	63	12	43	80	276.5	250	180	15	215	4	4 x 14
GSS07	50	M16	100	8	80	14	53.5	100	350.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14

[1)] k_2 !

GSS□□-3M H□R


k
h1
e1
s1
k1
Δk
h1
a6
f6
b6
l
h
n
a
□k2
Lenze
ϕ g
ϕs5
n
c5
a5
b5
f5
o
ϕb1
HAR
f1
e5
b7
m
g1
p
ϕ a1
i1
u
t
d
d1
l1
l

7



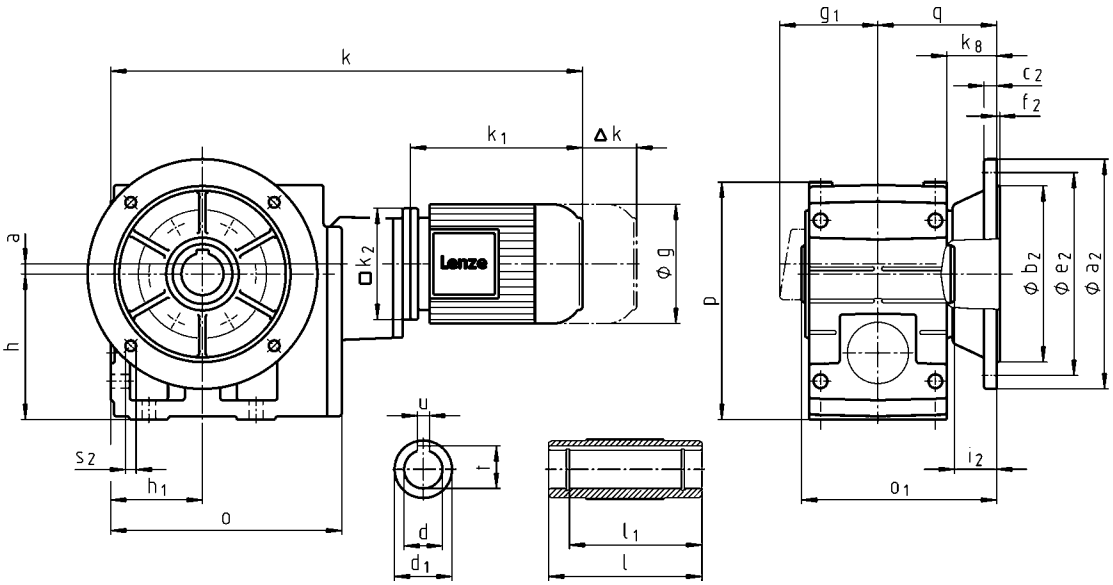
		063C32 063C42	071C32 071C42	080C32	080C42	090C32
g		123	139	156		176
g_1	MFEMAXX	100	109	141		146
	MFEMABR	107	118	132		137
k_1	MFEMAXX	187	207	224.5		274
k_2		120		145		180
Δ k	MFEMABR	40	52	73		68
	MFFMAXX	128				
	MFFMABR	170	165	183		181
		k				
GSS05		475				
GSS06		532	552	575		
GSS07		586	606	629		688

	a	h	h_1	o	p
GSS05	13	125	80	209	205
GSS06	10	150	100	252	250
GSS07	12	190	120	299	310

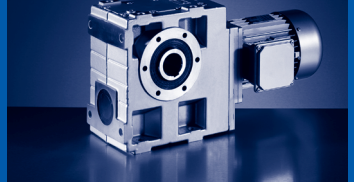
	d	d_1	l	l_1	u	t	i_1	a_1	b_1	e_1	f_1	s_1
	H7				JS9	+0,2			H7			
GSS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	4 4	118	80	100	4	M8x15
GSS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	5 5	140	100	120	4	M10x16
GSS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	5 5	165	115	140	5	M12x18

	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	m	n	s_5
GSS05	47.5	47.5	95	140	105	17	127	124	169	21	29	11
GSS06	60	60	120	170	120	20	145	156	206	23	36	14
GSS07	70	70	140	210	150	25	180	185	255	28	45	18

GSS□□-3M HAK


k
k1
Δk
a
h
□k2
Lenze
Φ g
s2
h1
o
u
t
d
d1
l1
l
g1
q
k8
c2
f2
p
Φ b2
Φ e2
Φ a2
i2
o1

7

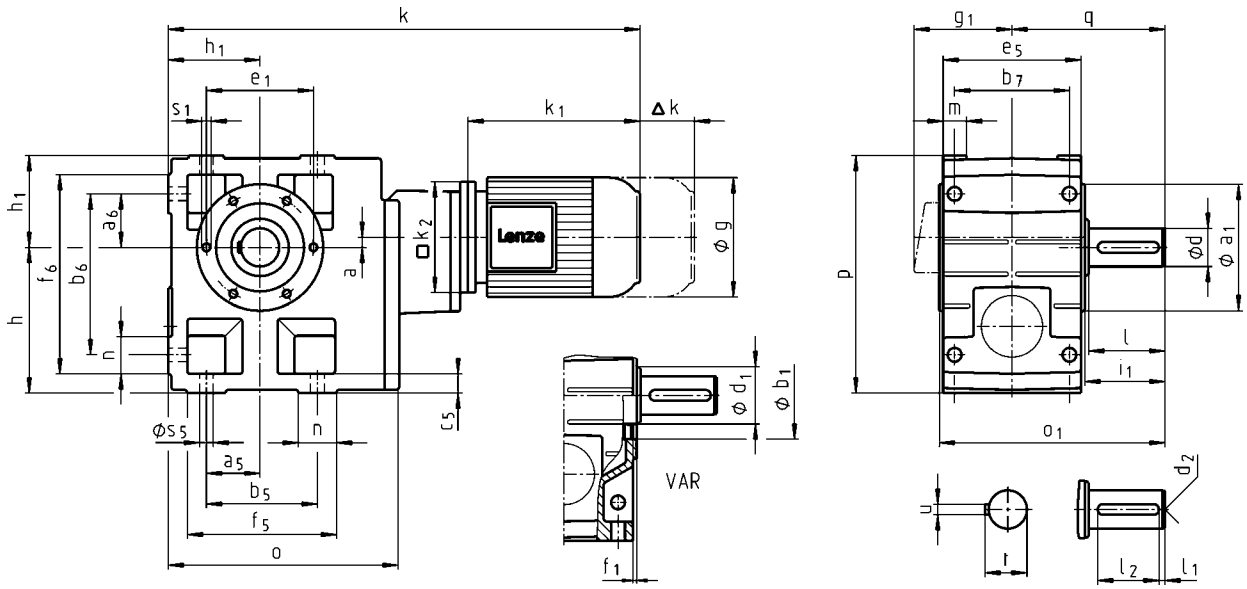


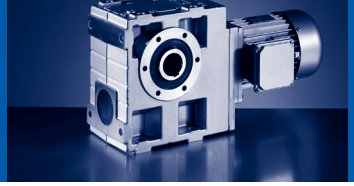
		063C32 063C42	071C32 071C42	080C32	080C42	090C32
g		123	139	156		176
g_1	MFEMAXX	100	109	141		146
	MFEMABR	107	118	132		137
k_1	MFEMAXX	187	207	224.5		274
k_2		120		145		180
Δ k	MFEMABR	40	52	73		68
	MFFMAXX	128				
	MFFMABR	170	165	183		181
		k				
GSS05		475				
GSS06		532	552	575		
GSS07		586	606	629		688

	a	h	h_1	k_8	o	p	q
GSS05	13	125	80	40	209	205	103.5
GSS06	10	150	100	49	252	250	121.5
GSS07	12	190	120	65.5	299	310	155.5

	d	d_1	l	l_1	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	H7				JS9	+0,2				j7				
GSS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	33 33	173.5 173.5	200	130	12	165	4	4 x 11
GSS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	42 41	201.5 201.5	250	180	15	215	4	4 x 14
GSS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	55 55	255.5 255.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14

GSS□□-3M V□R


k
h1
e1
s1
k1
Δk
h1
f6
b6
a6
h
n
a
□k2
Lenze
ø g
c5
øs5
a5
b5
f5
o
n
ø d1
ø b1
VAR
f1
g1
q
e5
b7
m
p
ød
ø a1
l
i1
o1
d2
u
t
l2
l1



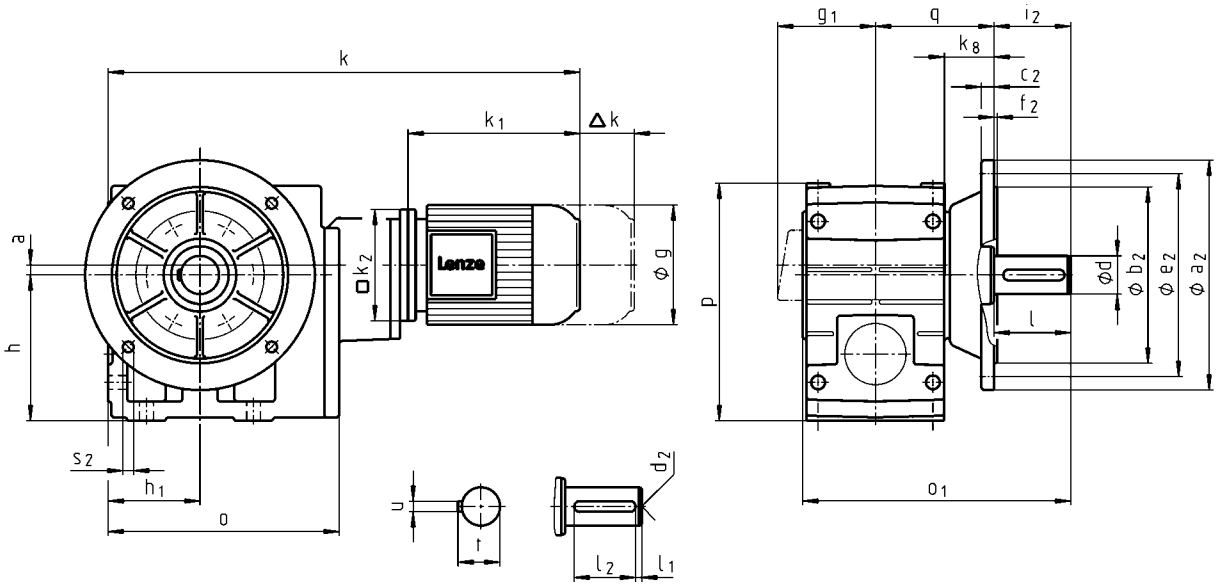
		063C32 063C42	071C32 071C42	080C32	080C42	090C32
g		123	139	156		176
g_1	MFEMAXX	100	109	141		146
	MFEMABR	107	118	132		137
k_1	MFEMAXX	187	207	224.5		274
k_2		120		145		180
Δ k	MFEMABR	40	52	73		68
	MFFMAXX	128				
	MFFMABR	170	165	183		181
		k				
GSS05		475				
GSS06		532	552	575		
GSS07		586	606	629		688

	a	h	h_1	o	p	q
GSS05	13	125	80	209	205	130
GSS06	10	150	100	252	250	160
GSS07	12	190	120	299	310	200

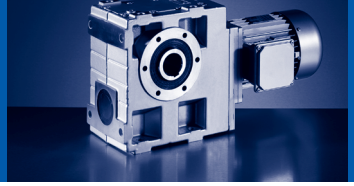
	d	d_1	d_2	l	l_1	l_2	u	t	i_1	o_1	a_1	b_1	e_1	f_1	s_1
	k6											H7			
GSS05	30	45	M10	60	6	45	8	33	64	196.5	118	80	100	4	M8x15
GSS06	40	65	M16	80	7	63	12	43	85	235.5	140	100	120	4	M10x16
GSS07	50	75	M16	100	8	80	14	53.5	105	295.5	165	115	140	5	M12x18

	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	m	n	s_5
GSS05	47.5	47.5	95	140	105	17	127	124	169	21	29	11
GSS06	60	60	120	170	120	20	145	156	206	23	36	14
GSS07	70	70	140	210	150	25	180	185	255	28	45	18

GSS□□-3M VAK


k
k1
Δk
a
h
k2
Lenze
ϕ g
s2
h1
o
u
t
d2
l2
l1
g1
q
i2
k8
c2
f2
p
ϕd
ϕ b2
ϕ e2
ϕ a2
l
o1

7

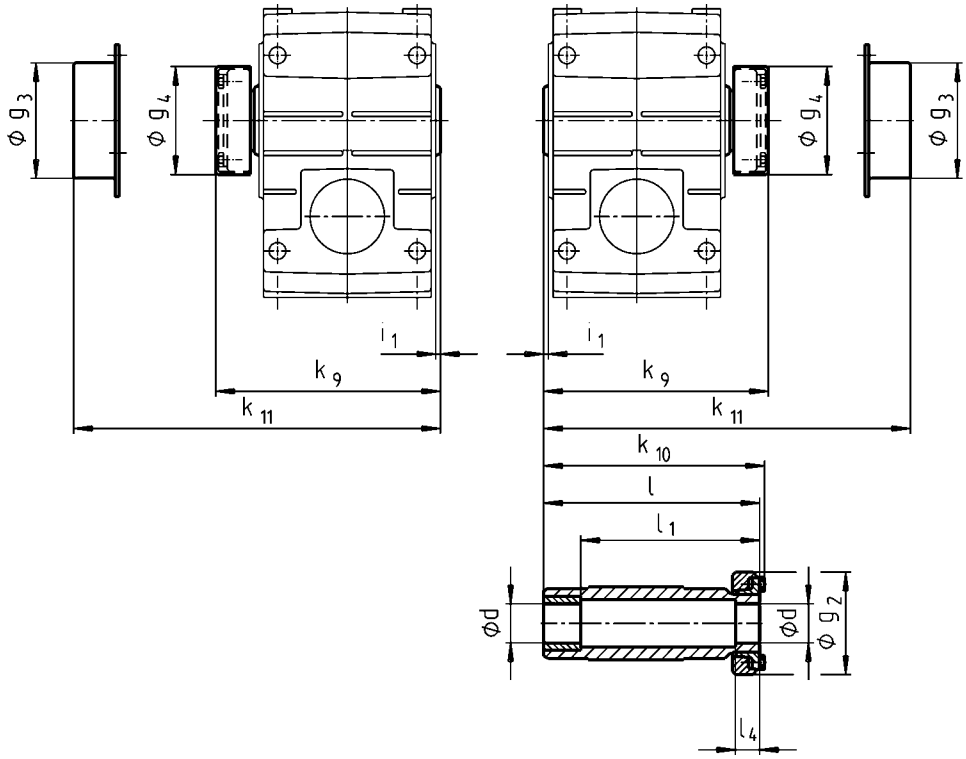


		063C32 063C42	071C32 071C42	080C32	080C42	090C32
g		123	139	156		176
g_1	MFEMAXX	100	109	141		146
	MFEMABR	107	118	132		137
k_1	MFEMAXX	187	207	224.5		274
k_2		120		145		180
Δ k	MFEMABR	40	52	73		68
	MFFMAXX	128				
	MFFMABR	170	165	183		181
		k				
GSS05		475				
GSS06		532	552	575		
GSS07		586	606	629		688

	a	h	h_1	k_8	o	p	q
GSS05	13	125	80	40	209	205	103.5
GSS06	10	150	100	49	252	250	121.5
GSS07	12	190	120	65.5	299	310	155.5

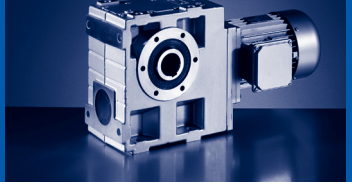
	d	d_2	l	l_1	l_2	u	t	i_2	o_1	a_2	b_2	c_2	e_2	f_2	s_2
	k6										j7				
GSS05	30	M10	60	6	45	8	33	60	229.5	200	130	12	165	4	4 x 11
GSS06	40	M16	80	7	63	12	43	80	276.5	250	180	15	215	4	4 x 14
GSS07	50	M16	100	8	80	14	53.5	100	350.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14

Hollow shaft with shrink disc

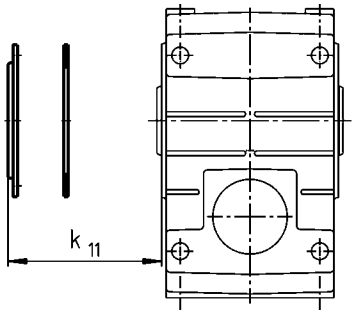


	d	g_2	g_3	g_4	i_1	k_9	k_{10}	k_{11}	l	l_1	l_4
	h6										
GSS04	25 30	72	79	76	2.5	150	148	154	142	122	26
GSS05	35	80	90	84	4.0	176	174	179	168	148	28
GSS06	40	90	100	94	5.0	202	200	204	194	164	30
GSS07	50	110	124	116		241	238	244	232	192	26

- Output flange and hollow shaft with shrink disc (output version SAK) are not possible in the same location. For additional dimensions see output version H□□.
- Ensure that the strength of the machine shaft material is adequate in shrink disc designs.
  When using typical steels (e.g. C45, 42CrMo4), the torques listed in the selection tables can be used without restriction. Please consult us if you wish to use material that is considerably weaker. Medium surface roughness Rz must not exceed 15 µm (machining is sufficient).



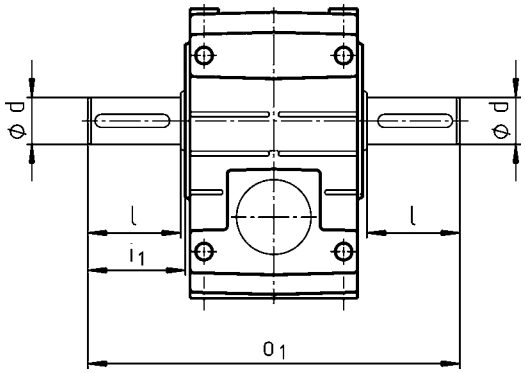
Hoseproof hollow shaft cover



► Cover including gasket

	k_{11}
	[mm]
GSS04	9
GSS05	10
GSS06	11
GSS07	

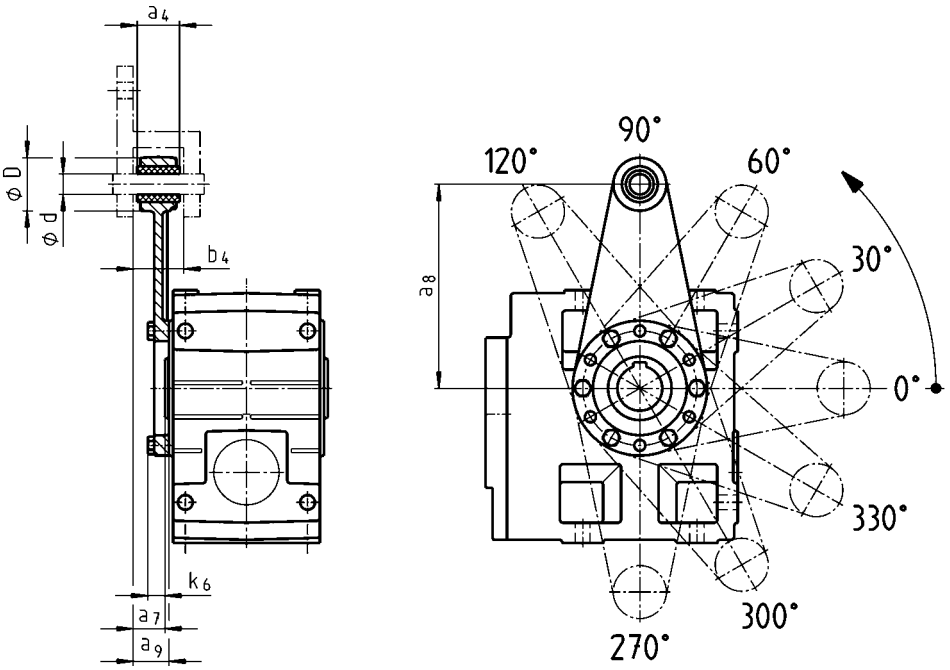
Gearbox with 2nd output shaft end



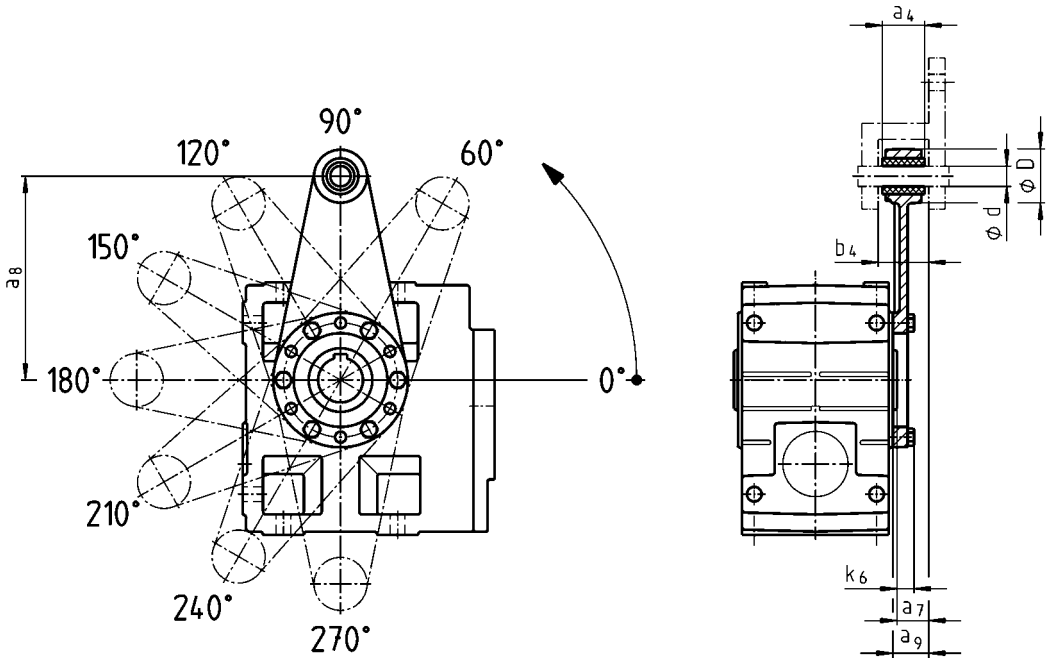
	d	l	i_1	o_1
	k6			
	[mm]	[mm]	[mm]	[mm]
GSS04	25	50	52.5	215
GSS05	30	60	64.0	260
GSS06	40	80	85.0	320
GSS07	50	100	105.0	400

Torque plate on threaded pitch circle

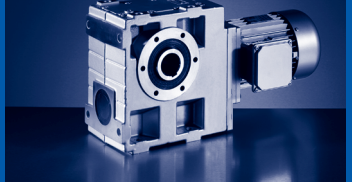
In position 3



In position 5

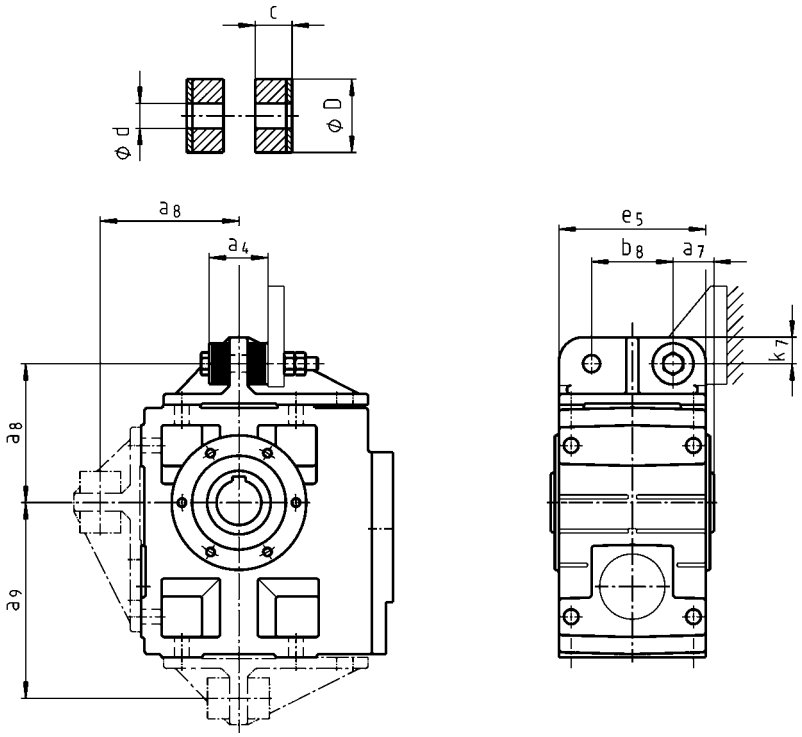


	a_4	a_7	a_8	a_9	b_4	d	D	k_6
GSS04	30	24.0	130	26.5	34.5	12	35	16
GSS05	34	23.5	160	27.5	38.5	16	45	15
GSS06	40	28.0	200	33.0	44.5	20	50	18
GSS07	46	32.5	250	37.5	50.5	25	65	21



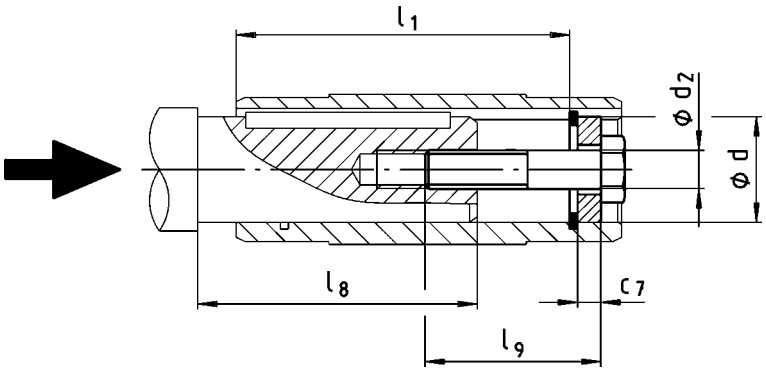
Torque plate at housing foot

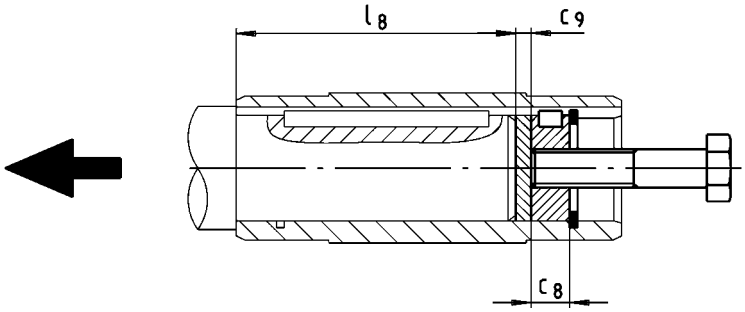
In position 2, 4 or 6



	a_4	a_7	a_8	a_9	b_8	c	d	D	e_5	k_7
GSS04	41	27.5	106	135.0	60	14.5	11	30	100	20
GSS05	45	35.0	115	160.0	70	15.0	13	40	127	25
GSS06	72	40.0	145	195.0	80	27.0	17	50	145	28
GSS07	78	50.0	170	240.0	100	28.0	21	60	180	35

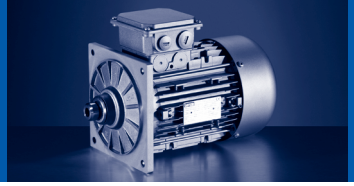
Mounting set for hollow shaft circlip - Proposed design for auxiliary tools





	d	l_1	d_2	l_9	c_7	c_8	c_9	$l_{8,max}$
	H7							
GSS04	25 30	100	M10	40	5	10	3	85
					6			
GSS05	30 35	124						107
			M12	50	7	12		
GSS06	40 45	140	M16	60	8	16	4	118
					9			
GSS07	50 55	175			10		5	148
			M20	80	11	20		

7



4-pole motors

Rated frequency 120 Hz

	P_N	n_N	$U_{N,\Delta}$ [-1)]	$I_{N,\Delta}$	$U_{N,Y}$	$I_{N,Y}$
			± 10 %		± 10 %	
	[kW]	[r/min]	[V]	[A]	[V]	[A]
MF□□□□□063-32	0.55	3440	200	3.20	345	1.80
MF□□□□□063-42	0.75	3400	210	4.00	370	2.30
MF□□□□□071-32	1.10	3490	200	5.50	345	3.20
MF□□□□□071-42	1.50	3450	205	6.80	360	3.90
MF□□□□□080-32	2.20	3500	200	9.10	345	5.30
MF□□□□□080-42	3.00	3480	210	11.4	370	6.60
MF□□□□□090-32	4.00	3480			370	8.50
MF□□□□□100-12	5.50	3525			340	12.9
MF□□□□□100-32	7.50	3515			375	15.9
MF□□□□□112-22	11.0	3530			370	23.5
MF□□□□□132-12	15.0	3560			370	31.2
MF□□□□□132-22	18.5	3560			360	39.0
MF□□□□□132-32	22.0	3550			380	44.5

	M_N	M_{max}	cos φ	$\eta_{75\,\%}$	$\eta_{100\,\%}$	J [1)]	m [1)]
	[Nm]	[Nm]		[%]	[%]	[kgcm²]	[kg]
MF□□□□□063-32	1.53	6.00	0.68	75.0	75.0	3.70	4.40
MF□□□□□063-42	2.11	8.00	0.69	79.6	79.6	3.70	4.40
MF□□□□□071-32	3.01	12.0	0.77	81.4	81.4	12.8	6.40
MF□□□□□071-42	4.15	16.0	0.80	82.8	82.8	12.8	6.40
MF□□□□□080-32	6.00	24.0	0.86	84.3	84.3	28.0	11.0
MF□□□□□080-42	8.20	32.0	0.86	85.5	85.5	28.0	11.0
MF□□□□□090-32	10.9	44.0	0.85	87.0	86.6	32.0	18.0
MF□□□□□100-12	14.9	60.0	0.81	87.9	87.7	61.0	26.5
MF□□□□□100-32	20.3	80.0	0.81	88.9	88.7	61.0	26.5
MF□□□□□112-22	29.7	120	0.78	89.8	89.8	107	38.0
MF□□□□□132-12	40.3	160	0.84	88.9	90.6	336	66.0
MF□□□□□132-22	49.6	200	0.84	89.9	91.2	336	66.0
MF□□□□□132-32	59.2	240	0.83	90.5	91.6	336	66.0

1) Without accessories

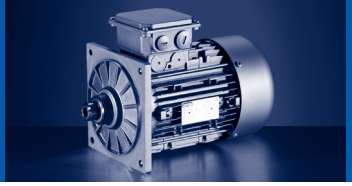
MF three-phase AC motors are designed exclusively for inverter operation. At a base frequency of 120 Hz, the rated voltage has been set to approx. 200 V in a delta connection (up to 2.2 kW) and approx. 350 V in a star connection.

In the standard version, the motors are connected in the terminal box. As an option, the motors are also available with the plug-in connectors described on the following pages as long as the permissible ratings are not exceeded.

Motor terminal box

Assignment: motor terminal box - built-on accessories

	M□□MA XX	M□□MA RS M□□MA IG M□□MA AG	M□□MA ZE
MF□□□□□063-32 **MF□□□□□063-42**	KK1	KK2	
MF□□□□□071-32 **MF□□□□□071-42**	KK1	KK2	KK2
MF□□□□□080-32 **MF□□□□□080-42**	KK1	KK2	KK2
MF□□□□□090-32	KK1	KK2	KK2
MF□□□□□100-12 **MF□□□□□100-32**	KK1	KK2	KK2
MF□□□□□112-22	KK1	KK2	KK2
MF□□□□□132-12 **MF□□□□□132-22** **MF□□□□□132-32**	KK1	KK3	KK3



	M□□MA BR	M□□MA BS M□□MA BI M□□MA BA	M□□MA BZ
MF□□□□□063-32 **MF□□□□□063-42**	KK2	KK3	
MF□□□□□071-32 **MF□□□□□071-42**	KK2	KK3	KK2
MF□□□□□080-32 **MF□□□□□080-42**	KK2	KK3	KK2
MF□□□□□090-32	KK2	KK3	KK2
MF□□□□□100-12 **MF□□□□□100-32**	KK2	KK3	KK2
MF□□□□□112-22	KK2	KK3	KK2
MF□□□□□132-12 **MF□□□□□132-22** **MF□□□□□132-32**	KK3	KK3	KK3

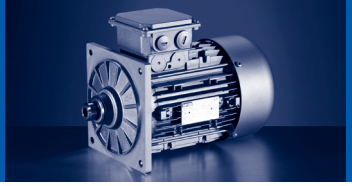
Motor terminal box with ICN connector

The connectors can be rotated through 270° and fitted with a bayonet fixing. As the connector fixing is also compatible with conventional union nuts, existing mating connectors can continue to be used without difficulty. The motor connection is determined in the terminal box and must be checked before commissioning.

Design			ICN 6-pole	ICN 8-pole
Number of power contacts			3	
Number of earthing contacts			1	
Number of signalling contacts Brake/rectifier supply voltage			2	
TKO thermal contacts supply voltage				2
Max. current	I_{max}	[A]	20.0	
Socket identifier for Lenze system cables Counter plug			M04	M08

Motor terminal box with ICN connectors - built-on accessories assignment: 4-pole / 6-pole motors

	M□□MA XX	M□□MA RS M□□MA IG M□□MA AG	M□□MA ZE
MF□□□□□063-32 **MF□□□□□063-42**	KK1	KK2	
MF□□□□□071-32 **MF□□□□□071-42**	KK1	KK2	KK2
MF□□□□□080-32 **MF□□□□□080-42**	KK1	KK2	KK2
MF□□□□□090-32	KK1	KK2	KK2
MF□□□□□100-12 **MF□□□□□100-32**	KK1	KK2	KK2



	M□□MA BR	M□□MA BS M□□MA BI M□□MA BA	M□□MA BZ
MF□□□□□063-32 **MF□□□□□063-42**	KK2	KK2	
MF□□□□□071-32 **MF□□□□□071-42**	KK2	KK2	KK2
MF□□□□□080-32 **MF□□□□□080-42**	KK2	KK2	KK2
MF□□□□□090-32	KK2	KK2	KK2
MF□□□□□100-12 **MF□□□□□100-32**	KK2	KK2	KK2

Motor terminal box with HAN-10 E connector

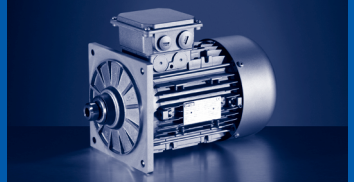
In the case of the rectangular HAN-10E plug-in connectors, all six ends of the three winding phases are taken out to the power contacts. The motor circuit is therefore determined in the mating connector.

Design			HAN-10E
Number of power contacts			6
Number of earthing contacts			1
Number of signalling contacts Brake/rectifier supply voltage TKO thermal contacts supply voltage			 2 2
Max. current	I_{max}	[A]	16.0
Socket identifier for Lenze system cables Counter plug			H10 ... H13

Motor terminal box with HAN modular connector

The connector is available with two different power modules (16 A or 40 A), depending on the rated motor current. The motor connection is determined in the terminal box and must be checked before commissioning.

Design			HAN modular
Number of power contacts			3
Number of earthing contacts			1
Number of signalling contacts Brake/rectifier supply voltage Rectifier DC switching contacts supply voltage TKO thermal contacts supply voltage			 2 2 2
Max. current	I_{max}	[A]	16.0 40.0
Socket identifier for Lenze system cables Counter plug			H07 ... H09



Motor terminal box with HAN connectors - built-on accessories
assignment: 4-pole / 6-pole motors

	M□□MA XX M□□MA BR	M□□MA ZE M□□MA BZ
MF□□□□□063-32 **MF□□□□□063-42**	HAN-10E HAN modular	
MF□□□□□071-32 **MF□□□□□071-42**	HAN-10E HAN modular	HAN-10E HAN modular
MF□□□□□080-32 **MF□□□□□080-42**	HAN-10E HAN modular	HAN-10E HAN modular
MF□□□□□090-32	HAN-10E HAN modular	HAN-10E HAN modular
MF□□□□□100-12 **MF□□□□□100-32**	HAN-10E HAN modular	HAN-10E HAN modular
MF□□□□□112-22		
MF□□□□□132-12 **MF□□□□□132-22** **MF□□□□□132-32**	HAN modular	HAN modular

Connector for feedback

ICN connector

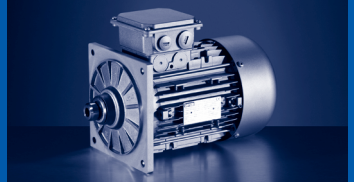
All encoder systems (apart from IG128-24V-H) are also available with an ICN connector fixed to the motor terminal box for exceptionally fast commissioning. The connectors are fitted with a bayonet fixing, which is also compatible with conventional union nuts. Existing mating connectors can therefore continue to be used without difficulty.

Design		Resolver	Incremental encoder SinCos absolute value encoder
Number of signalling contacts		12	
Coding	[°]	0	20
Socket identifier for Lenze system cables Counter plug		F05	F06

Connector for IG128-24V-H

As a standard this incremental encoder is equipped with a connection cable of about 0.5 m length and with a common industry standard M12 connector at its end.

Design		Incremental encoder IG128-24V-H
Number of signalling contacts		4
Coding	[°]	0



ICN connector for blower

ICN connector

The blower is also optionally available with an ICN connector fixed to the terminal box of the blower for exceptionally fast commissioning. The connectors are fitted with a bayonet fixing, which is also compatible with conventional union nuts. Existing counter plugs can therefore continue to be used without difficulty.

Design	Blower 1-ph	Blower 3-ph
Number of power contacts	6	
Number of earthing contacts	1	
Socket identifier for Lenze system cables Counter plug	L04	L06

Features and assignments

Three-phase AC motors can be fitted with a spring-applied brake. This is activated after the supply voltage is switched off (closed-circuit principle). For optimum adjustment of the brake motor to the application, a range of braking torques and control versions is available for every motor frame size. For applications with very high operating frequencies the brake is also available in a LongLife version, with reinforced mechanical brake components.

Features

Versions
- **Standard**

1 x 10^6 Repeating switching cycles
1 x 10^6 Reversing switching cycles
- **LongLife**

10 x 10^6 Repeating switching cycles
15 x 10^6 Reversing switching cycles

Control
- DC supply
- AC supply via rectifier in the terminal box

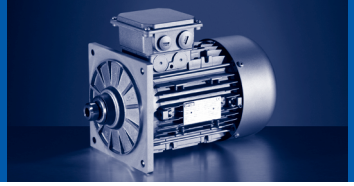
Enclosure
- Without manual release IP55
- With manual release IP54

Friction lining
- Asbestos-free, with low rate of wear

Options
- Manual release
- UL/CSA approval

Motor - brake assignment: 4-pole motors

Design	Standard		LongLife	
	Size	rated torque	Size	rated torque
	Brake		Brake	
		M_k		M_k
		[Nm]		[Nm]
MF□□□□□063-32 **MF□□□□□063-42**	**06** **06**	2.50 4.00	**06**	4.00
MF□□□□□071-32	**06** **06** **08**	2.50 4.00 3.50	**06** **08**	4.00 3.50
MF□□□□□071-42	**06** **06** **08** **08**	2.50 4.00 3.50 8.00	**06** **08** **08**	4.00 3.50 8.00
MF□□□□□080-32	**08** **08** **10**	3.50 8.00 7.00	**08** **10**	8.00 7.00
MF□□□□□080-42	**08** **08** **10** **10**	3.50 8.00 7.00 16.0	**08** **10** **10**	8.00 7.00 16.0



Design	Standard		LongLife	
	Size	rated torque	Size	rated torque
	Brake		Brake	
		M_k		M_k
		[Nm]		[Nm]
MF□□□□□090-32	**08** **08** **10** **10** **10**	3.50 8.00 7.00 16.0 23.0	**08** **10** **10**	8.00 7.00 16.0
MF□□□□□100-12	**10** **10** **12** **12**	7.00 16.0 14.0 32.0	**10** **12** **12**	16.0 14.0 32.0
MF□□□□□100-32	**10** **10** **12** **12** **12**	7.00 16.0 14.0 32.0 46.0		
MF□□□□□112-22	**12** **12** **14** **14**	14.0 32.0 35.0 60.0		
MF□□□□□132-12	**14** **14** **16** **16**	35.0 60.0 60.0 80.0		
MF□□□□□132-22 **MF□□□□□132-32**	**14** **14** **16** **16** **16**	35.0 60.0 60.0 80.0 100		

Brake connection

Direct connection without rectifier

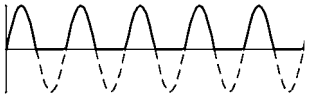
If the brake is activated directly without a rectifier, a freewheeling diode or a spark suppressor is required to protect against induction peaks.

- Supply voltages
  DC 24 V
  DC 180 V
  DC 205 V

Connection via mains voltage with brake rectifier

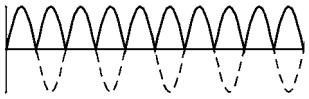
If the brake is not directly supplied with DC voltage, a rectifier is required. This is included in the scope of supply and is located in the terminal box of the motor. The rectifier converts the AC voltage of the connection into DC voltage. The following rectifiers are available:

Half-wave rectifier, 6-pole



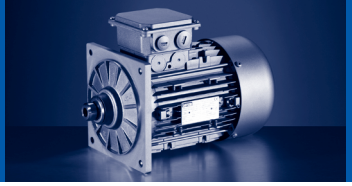
- Ratio of supply voltage to brake coil voltage = 2.22
- Approved by UL/CSA
- Supply voltages
  AC 230 V
  AC 277 V
  AC 400 V
  AC 460 V
  AC 480 V

Bridge rectifier, 6-pole



- Ratio of supply voltage to brake coil voltage = 1.11
- Supply voltage
  AC 230 V

8



Bridge/half-wave rectifier, 6-pole

- Ratio of supply voltage to brake coil voltage
  up to overexcitation time = 1.11
  beyond overexcitation time = 2.22

Supply voltages:

- AC 230 V
- AC 277 V
- AC 400 V

During the switching operation the bridge/half-wave rectifier functions as a bridge rectifier for the overexcitation time $t_{ü}$ and then as a half-wave rectifier. This combination optimises the performance of the brake – depending on the assignment of brake coil voltage and supply voltage:

- **Short-time overexcitation of the brake coil**
  Activating the brake coil for the overexcitation time $t_{ü}$ with twice the rated voltage allows the disengagement time to be reduced. The brake opens more quickly and wear on the friction lining is reduced.
  These features make this activation version particularly suitable for lifting applications. It is therefore only available in combination with a brake with increased braking torque.

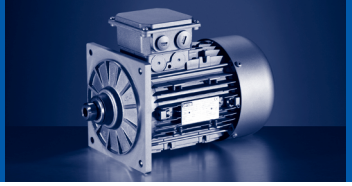
- **Holding current reduction (cold brake)**
  By reducing the holding current, the bridge/half-wave rectifier is able to reduce the power input to the open brake. As the brake heats up less, this type of activation is known as "cold brake".

Brake data, reduced braking torque

► Please enquire for braking torques and maximum switching work values not listed here.

Size			06	08	10	12	14	16
Coil power	**P**	[kW]	0.020	0.025	0.030	0.040	0.050	0.055
Braking torque								
100	M_B	[Nm]	2.50	3.50	7.00	14.0	35.0	60.0
1000	M_B	[Nm]	2.30	3.10	6.10	12.0	30.0	50.0
1200	M_B	[Nm]	2.30	3.10	6.00	12.0	29.0	48.0
1500	M_B	[Nm]	2.20	3.00	5.80	11.0	28.0	47.0
1800	M_B	[Nm]	2.10	2.90	5.70	11.0	28.0	46.0
3000	M_B	[Nm]	2.00	2.80	5.30	10.0	26.0 [1]	43.0 [1]
3600	M_B	[Nm]	2.00	2.70	5.20	10.0 [1]		
Maximum switching energy								
100	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
1000	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
1200	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
1500	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
1800	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
3000	Q_E	[KJ]	3.00	7.50	12.0	24.0	18.0 [1]	11.0 [1]
3600	Q_E	[KJ]	3.00	7.50	12.0	7.00 [1]		
Transition operating frequency	$S_{hü}$	[1/h]	79.0	50.0	40.0	30.0	28.0	27.0
Moment of inertia	**J**	[kgcm²]	0.015	0.061	0.20	0.45	0.63	1.50
Mass	**m**	[kg]	0.90	1.50	2.60	4.20	5.80	8.70

[1] In the region of the load limit the value for friction energy Q_{BW} can be reduced to 40 %.



Activation via half-wave or bridge rectifier

Size			06	08	10	12	14	16
Friction energy	Q_{BW}	[MJ]	113	210	264	706	761	966
Delay time Engaging	t_{11}	[ms]	11.0	14.0	20.0	21.0	37.0	53.0
Rise time Braking torque	t_{12}	[ms]	13.0	10.0	17.0	19.0	22.0	30.0
Engagement time	t_1	[ms]	24.0		37.0	40.0	59.0	83.0
Disengagement time	t_2	[ms]	35.0	37.0	57.0	65.0	148	169

Activation via bridge/half-wave rectifier

Design			Holding current reduction (cold brake)					
Size			06	08	10	12	14	16
Friction energy	Q_{BW}	[MJ]	113	210	264	706	761	966
Overexcitation time	$t_{ü}$	[ms]	300				1300	
Min. rest time	t	[ms]	900				3900	
Delay time Engaging	t_{11}	[ms]	12.0	22.0	35.0	49.0	61.0	114
Rise time Braking torque	t_{12}	[ms]	14.0	16.0	30.0	45.0	37.0	65.0
Engagement time	t_1	[ms]	26.0	38.0	66.0	93.0	97.0	180
Disengagement time	t_2	[ms]	35.0	37.0	57.0	65.0	148	169

- The brake response and application times are guide values.
  The engagement time is 10 times longer with AC-side switching.
  With the maximum air gap the disengagement time t_2 – depending on the brake and control – is up to 4 times longer than the disengagement time with the rated air gap.

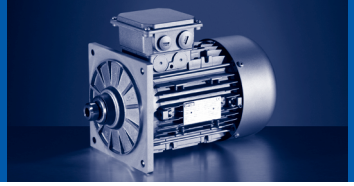
Brake data, standard braking torque

► Please enquire for braking torques and maximum switching work values not listed here.

Size			06	08	10	12	14	16
Coil power	**P**	[kW]	0.020	0.025	0.030	0.040	0.050	0.055
Braking torque								
100	M_B	[Nm]	4.00	8.00	16.0	32.0	60.0	80.0
1000	M_B	[Nm]	3.70	7.20	14.0	27.0	51.0	66.0
1200	M_B	[Nm]	3.60	7.00	14.0	27.0	50.0	65.0
1500	M_B	[Nm]	3.50	6.80	13.0	26.0	48.0	63.0
1800	M_B	[Nm]	3.40	6.70	13.0	26.0	47.0	61.0
3000	M_B	[Nm]	3.20	6.30	12.0	24.0	44.0 [1)]	57.0 [1)]
3600	M_B	[Nm]	3.20	6.10	12.0	23.0 [1)]		
Maximum switching energy								
100	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
1000	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
1200	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
1500	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
1800	Q_E	[KJ]	3.00	7.50	12.0	24.0	30.0	36.0
3000	Q_E	[KJ]	3.00	7.50	12.0	24.0	18.0 [1)]	11.0 [1)]
3600	Q_E	[KJ]	3.00	7.50	12.0	7.00 [1)]		
Transition operating frequency	$S_{hü}$	[1/h]	79.0	50.0	40.0	30.0	28.0	27.0
Moment of inertia	**J**	[kgcm²]	0.015	0.061	0.20	0.45	0.63	1.50
Mass	**m**	[kg]	0.90	1.50	2.60	4.20	5.80	8.70

[1)] In the region of the load limit the value for friction energy Q_{BW} can be reduced to 40 %.

8



Activation via half-wave or bridge rectifier

Size			06	08	10	12	14	16
Friction energy	Q_{BW}	[MJ]	85.0	158	264	530	571	966
Delay time Engaging	t_{11}	[ms]	15.0		28.0		17.0	27.0
Rise time Braking torque	t_{12}	[ms]	13.0	16.0	19.0	25.0		30.0
Engagement time	t_1	[ms]	28.0	31.0	47.0	53.0	42.0	57.0
Disengagement time	t_2	[ms]	45.0	57.0	76.0	115	210	220

Activation via bridge/half-wave rectifier

Design			Holding current reduction (cold brake)					
Size			06	08	10	12	14	16
Friction energy	Q_{BW}	[MJ]	85.0	158	264	530	571	966
Overexcitation time	$t_{ü}$	[ms]	300				1300	
Min. rest time	t	[ms]	900				3900	
Delay time Engaging	t_{11}	[ms]	16.0	25.0	31.0	48.0	33.0	58.0
Rise time Braking torque	t_{12}	[ms]	14.0	27.0	21.0	43.0	49.0	64.0
Engagement time	t_1	[ms]	30.0	52.0		90.0	82.0	122
Disengagement time	t_2	[ms]	45.0	57.0	76.0	115	210	220

- The brake response and application times are guide values.
  The engagement time is 10 times longer with AC-side switching.
  With the maximum air gap the disengagement time t_2 – depending on the brake and control – is up to 4 times longer than the disengagement time with the rated air gap.

Brake data, increased braking torque

► Please enquire for braking torques and maximum switching work values not listed here.

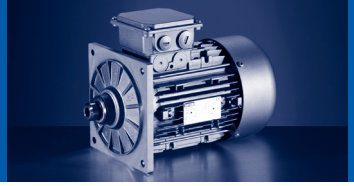
Size			10	12	14	16	16
Coil power	P	[kW]	0.030	0.040	0.050	0.055	0.055
Braking torque							
100	M_B	[Nm]	23.0	46.0	75.0	100	125
1000	M_B	[Nm]	20.0	39.0	64.0	83.0	103
1200	M_B	[Nm]	20.0	39.0	62.0	81.0	101
1500	M_B	[Nm]	19.0	38.0	60.0	78.0	98.0
1800	M_B	[Nm]	19.0	37.0	59.0	77.0	96.0
3000	M_B	[Nm]	17.0	34.0	55.0 [1)]	71.0 [1)]	89.0 [1)]
3600	M_B	[Nm]	17.0	33.0 [1)]			
Maximum switching energy							
100	Q_E	[KJ]	12.0	24.0	30.0	36.0	36.0
1000	Q_E	[KJ]	12.0	24.0	30.0	36.0	36.0
1200	Q_E	[KJ]	12.0	24.0	30.0	36.0	36.0
1500	Q_E	[KJ]	12.0	24.0	30.0	36.0	36.0
1800	Q_E	[KJ]	12.0	24.0	30.0	36.0	36.0
3000	Q_E	[KJ]	12.0	24.0	18.0 [1)]	11.0 [1)]	11.0 [1)]
3600	Q_E	[KJ]	12.0	7.00 [1)]			
Transition operating frequency	$S_{hü}$	[1/h]	40.0	30.0	28.0	27.0	27.0
Moment of inertia	J	[kgcm²]	0.20	0.45	0.63	1.50	1.50
Mass	m	[kg]	2.60	4.20	5.80	8.70	8.70

[1)] In the region of the load limit the value for friction energy Q_{BW} can be reduced to 40 %.

8

Activation via half-wave or bridge rectifier

Size			10	12	14	16	
Friction energy	Q_{BW}	[MJ]	198	353	253	563	241
Delay time Engaging	t_{11}	[ms]	10.0	16.0	11.0	22.0	17.0
Rise time Braking torque	t_{12}	[ms]	19.0	25.0		30.0	
Engagement time	t_1	[ms]	29.0	41.0	36.0	52.0	47.0
Disengagement time	t_2	[ms]	109	193	308	297	435



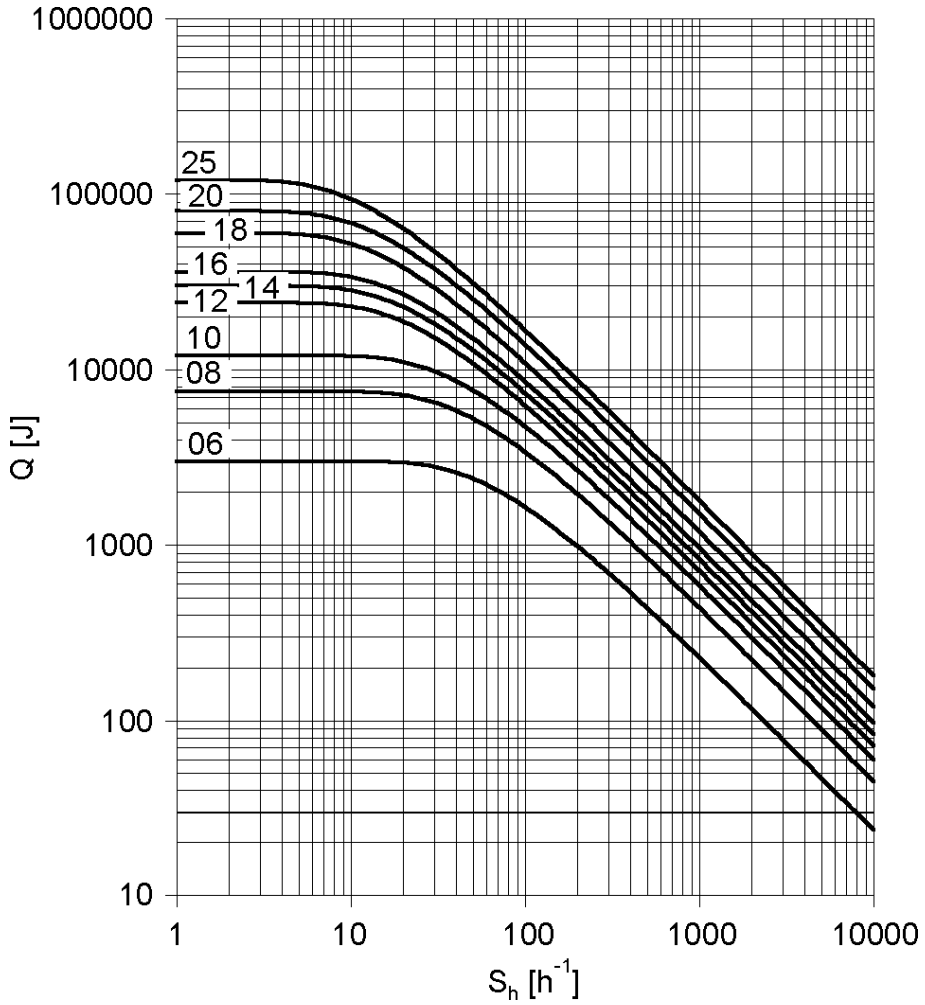
Activation via bridge/half-wave rectifier

Design			Holding current reduction (cold brake)				
Size			**10**	**12**	**14**	**16**	
Friction energy	Q_{BW}	[MJ]	198	353	253	563	241
Overexcitation time	$t_{ü}$	[ms]	300		1300		
Min. rest time	t	[ms]	900		3900		
Delay time Engaging	t_{11}	[ms]	24.0	27.0	17.0	41.0	21.0
Rise time Braking torque	t_{12}	[ms]	44.0	43.0	37.0	55.0	37.0
Engagement time	t_1	[ms]	68.0	70.0	54.0	97.0	57.0
Disengagement time	t_2	[ms]	109	193	308	297	435

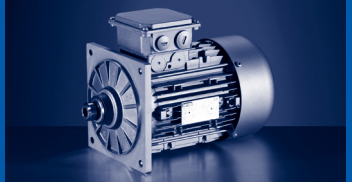
Design			Over-excitation				
Size			**10**	**12**	**14**	**16**	
Friction energy	Q_{BW}	[MJ]	264	706	761	966	
Overexcitation time	$t_{ü}$	[ms]	300		1300		
Min. rest time	t	[ms]	900		3900		
Delay time Engaging	t_{11}	[ms]	29.0	54.0	31.0	70.0	46.0
Rise time Braking torque	t_{12}	[ms]	53.0	87.0	68.0	93.0	83.0
Engagement time	t_1	[ms]	82.0	141	99.0	163	129
Disengagement time	t_2	[ms]	53.0	81.0	117	141	168

- The brake response and application times are guide values.
  The engagement time is 10 times longer with AC-side switching.
  With the maximum air gap the disengagement time t_2 – depending on the brake and control – is up to 4 times longer than the disengagement time with the rated air gap.

Permissible friction energy



Q =Switching energy per switching cycle
S_h =Operating frequency
Brake size = 06 ... 25



Rated data

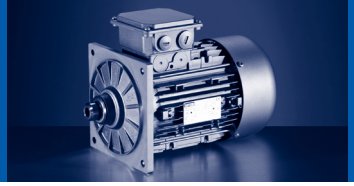
The use of a blower enables operation below 20 Hz without torque derating.

Blower data 50 Hz

	Number of phases	Connection method					
			U_{min}	U_{max}	P_{max}	I_{max}	m
			[V]	[V]	[kW]	[A]	[kg]
063	1		230	277	0.027	0.11	2.00
	3	Δ	200	303	0.028	0.12	
		Y	346	525		0.070	
071	1		230	277	0.027	0.10	2.10
	3	Δ	200	303	0.031	0.11	
		Y	346	525		0.060	
080	1		230	277	0.029	0.11	2.30
	3	Δ	200	303	0.031		
		Y	346	525		0.060	
090	1		220	277	0.065	0.29	2.70
	3	Δ	200	303	0.091	0.38	
		Y	346	525		0.22	
100	1		220	277	0.066	0.28	3.00
	3	Δ	200	303	0.091	0.37	
		Y	346	525		0.22	
112	1		220	277	0.071	0.28	3.10
	3	Δ	200	303	0.097	0.35	
		Y	346	525		0.20	
132	1		230	277	0.098	0.40	4.20
	3	Δ	200	303	0.12	0.58	
		Y	346	525		0.33	

Blower data 60 Hz

	Number of phases	Connection method					
			U_{min}	U_{max}	P_{max}	I_{max}	m
			[V]	[V]	[kW]	[A]	[kg]
063	1		230	277	0.032	0.12	2.00
	3	Δ	220	332	0.028	0.10	
		Y	380	575		0.060	
071	1		230	277	0.033	0.12	2.10
	3	Δ	220	332	0.029	0.10	
		Y	380	575		0.060	
080	1		230	277	0.037	0.14	2.30
	3	Δ	220	332	0.034	0.10	
		Y	380	575		0.060	
090	1		220	277	0.065	0.25	2.70
	3	Δ		332	0.077	0.33	
		Y	380	575		0.19	
100	1		220	277	0.075	0.30	3.00
	3	Δ		332	0.087	0.31	
		Y	380	575		0.18	
112	1		220	277	0.094	0.37	3.10
	3	Δ		332	0.10	0.31	
		Y	380	575		0.18	
132	1		230	277	0.15	0.57	4.20
	3	Δ	220	332		0.44	
		Y	380	575		0.25	



Tailored to meet the requirements of the various applications and necessary accuracies, the following feedback systems are available.

- The three-phase AC motors with resolver, incremental encoder or SinCos absolute value encoders cannot be used for speed-dependent safety functions in conjunction with the SM 301 safety module.

Resolver

Stator-fed resolver with two stator windings offset by 90° and one rotor winding with transformer winding.

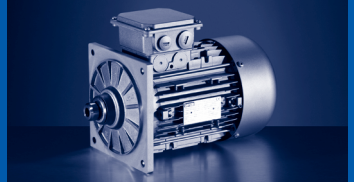
Product key				**RS1**
Accuracy			[']	-10 ... 10
Absolute positioning				1 revolution
Max. input voltage DC	$U_{in,max}$		[V]	10.0
Max. input frequency	$f_{in,max}$		[kHz]	4.00
Ratio Stator / rotor		± 5 %		0.30
Rotor impedance	Z_{ro}		[Ω]	51 + j90
Stator impedance	Z_{so}		[Ω]	102 + j150
Impedance	Z_{rs}		[Ω]	44 + j76
Min. insulation resistance At DC 500 V	**R**		[MΩ]	10.0
Number of pole pairs				1

Incremental encoder and SinCos absolute value encoder

Encoder type			HTL incremental				TTL incremental			SinCos absolute value
Product key			**IG128-24V-H**	**IG512-24V-H**	**IG1024-24V-H**	**IG2048-24V-H**	**IG512-5V-T**	**IG1024-5V-T**	**IG2048-5V-T**	**AM1024-8V-H**
Encoder type										**Multi-turn**
Pulses			128	512	1024	2048	512	1024	2048	1024
Output signals			HTL				TTL			1 Vss
Interfaces										Hiper-face
Absolute revolutions			0							4096
Accuracy		[']	-22.5 ... 22.5	-2 ... 2						-0.8 ... 0.8
Min. input voltage DC	$U_{in,min}$	[V]	8.00				4.75			7.00
Max. input voltage DC	$U_{in,max}$	[V]	26.0	30.0			5.25			12.0
Max. current consumption	I_{max}	[A]	0.040	0.15						0.080
Limit frequency	f_{max}	[kHz]	30.0	160			300			200
Inverter assignment			E84AVSC E84AVHC	E84AVHC			E84AVTC E94A ECS EVS93			

Frequency inverter
- Inverter Drives 8400 StateLine (E84AVSC)
- Inverter Drives 8400 HighLine (E84AVHC)
- Inverter Drives 8400 TopLine (E84AVTC)

Servo inverter
- Servo Drives 9400 (E94A)
- 9300 servo inverter (EVS93)
- ECS servo system (ECS)



The thermal sensors are integrated in the windings. The use of an additional motor protection switch is recommended.

TKO thermal contacts

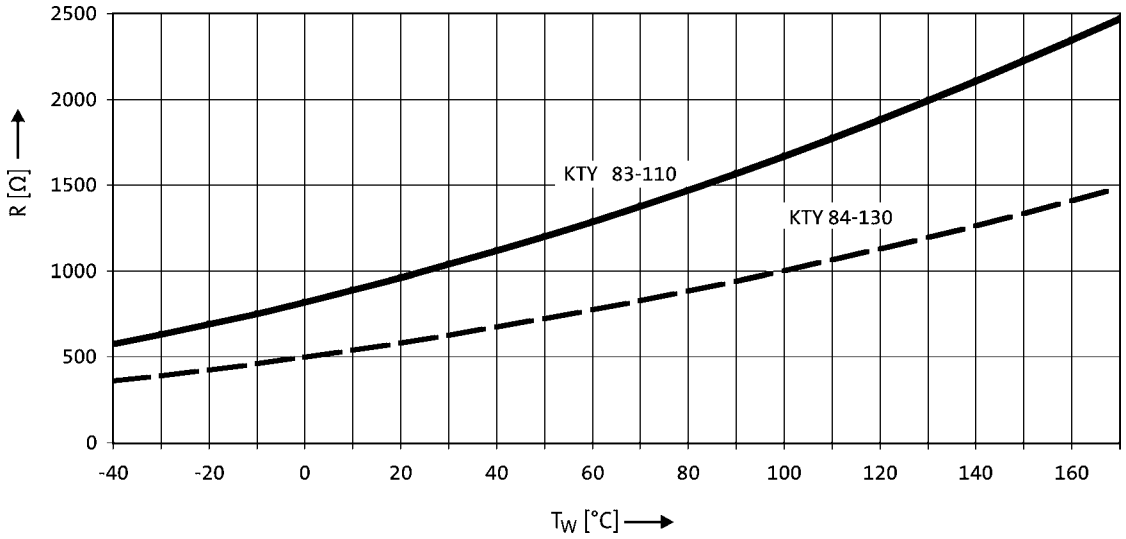
Function	Operating temperature	Min. reset temperature	Max. reset temperature	Max. input current	Max. input voltage
					AC
	T	T_{min}	T_{max}	$I_{in,max}$	$U_{in,max}$
	-5 ... 5				
	[°C]	[°C]	[°C]	[A]	[V]
NC contact	150	90.0	135	2.50	250

PTC thermistor

Function	Operating temperature	Rated resistance			Standard
		155 °C	-20 °C	140 °C	
	T	R_N	R_N	R_N	
	-5 ... 5				
	[°C]	[Ω]	[Ω]	[Ω]	
Sudden change in resistance	150	550	30.0	250	DIN 44080 DIN VDE 0660 Part 303

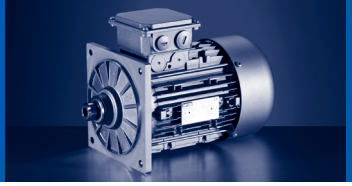
KTY continuous temperature sensor

	Function	Rated resistance			Max. input current	
		25 °C	150 °C	170 °C	25 °C	170 °C
		R_N	R_N	R_N	$I_{in,max}$	$I_{in,max}$
		[Ω]	[Ω]	[Ω]	[A]	[A]
KTY83-110	Continuous resistance change	1000	2225	2471	0.010	0.002
KTY84-130	Continuous resistance change	603	1334	1482	0.010	0.002

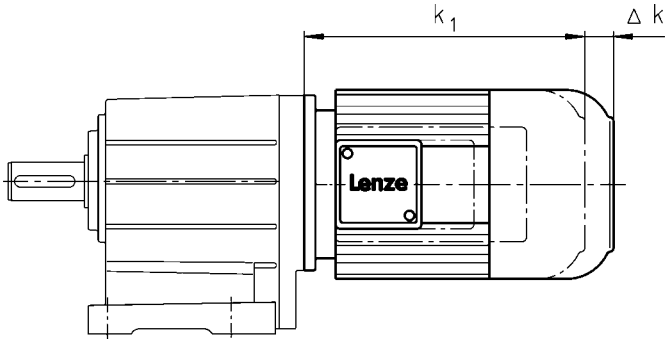


► If the detector is supplied with a measured current of 1 mA, the above relationship between the temperature and the resistance applies.

8



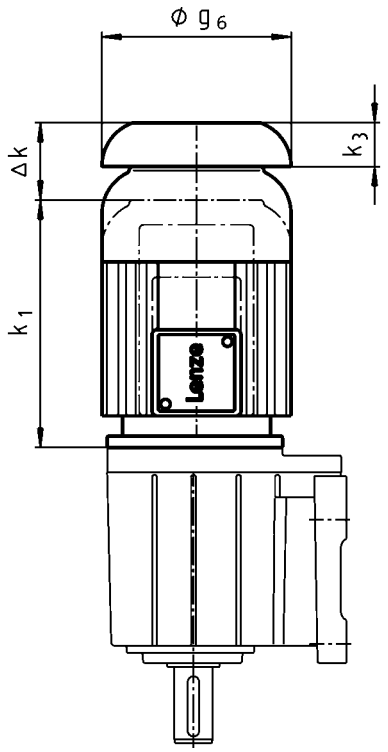
Motors with integral fan



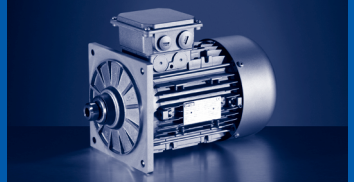
	M□□MA XX	M□□MA BR	M□□MA BS M□□MA BI M□□MA BA	M□□MA RS M□□MA IG M□□MA AG
	Δ k	Δ k	Δ k	Δ k
	[mm]	[mm]	[mm]	[mm]
063-32 063-42	0	40	103	56
071-32 071-42		52	96	52
080-32 080-42		73	111	111
090-32		68	105	87
100-12 100-32		76	101	81
112-22		90	120	80
132-12 132-22 132-32		110	125	103

8

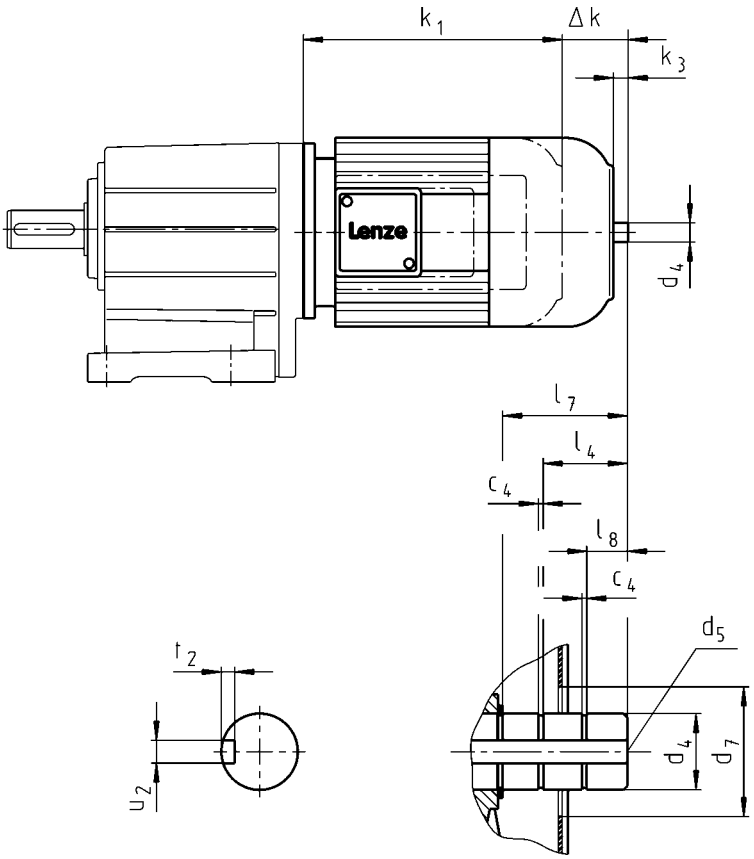
Motors with integral fan and protection cover



	M□□MA XX	M□□MA BR	M□□MA BS M□□MA BI M□□MA BA	M□□MA RS M□□MA IG M□□MA AG		
	Δ k	Δ k	Δ k	Δ k	g_6	k_3
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
063-32 063-42	26	66	129	82	123	11
071-32 071-42		78	122	78	138	12
080-32 080-42		99	137	127	156	16
090-32		94	131	113	176	15
100-12 100-32	31	107	132	112	194	17
112-22		121	151	111	218	18
132-12 132-22 132-32		141	156	134	257	20



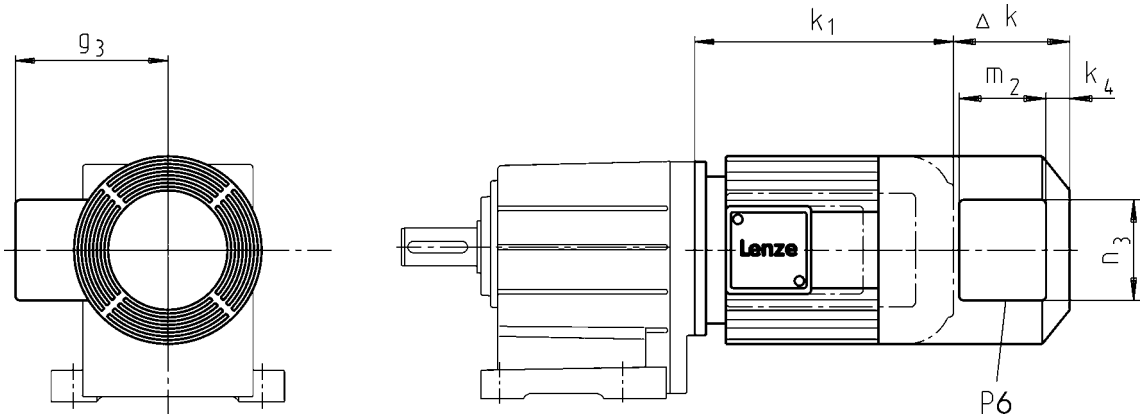
Motors with integral fan and 2nd shaft end



	M□□MA ZE M□□MA BZ											
	Δ k	**k_3**	**c_4**	**d_4**	**d_4**	**d_5**	**d_7** [1)]	**l_4**	**l_7**	**l_8**	**u_2**	**t_2**
				h6	j6							
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
071-32 **071-42**	47	11	1.1	14		M5	34		19.0	3.0	5.0	3.0
080-32 **080-42**	68	9								4.5		
090-32	57									5.0		
100-12 **100-32**	71	19	1.3		20	M6		17	32.5	10.5	6.0	3.5
112-22	84	16							28.5	7.0		
132-12 **132-22** **132-32**	101	25	1.6		30	M10	46	25	42.0	8.5	8.0	4.0

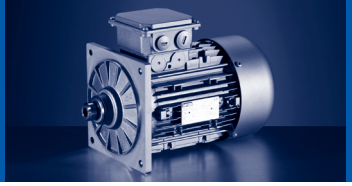
[1)] During operation, appropriate measures must be taken to make fan cover opening safe.

Motors with blower

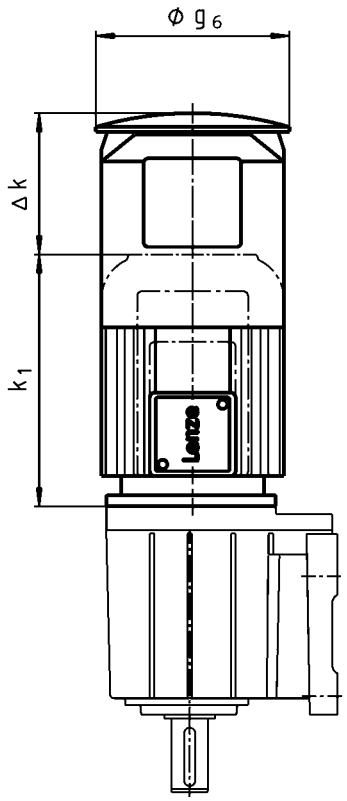


	M□□MA XX	M□□MA BR	M□□MA BS M□□MA BI M□□MA BA	M□□MA RS M□□MA IG M□□MA AG					
	Δ k	Δ k	Δ k	Δ k	k_4	g_3	m_2	n_3	P_6
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
063-32 063-42	128	170	170	128	12	115	95	105	1x M16x1.5
071-32 071-42		165	165			122			
080-32 080-42		183	183		13	132	96	106	
090-32		181	181		22	141	95	105	
100-12 100-32	109	170	170	109		150			
112-22	102	183	183	183		162			
132-12 132-22 132-32	115	202	202	202	32	182			

8

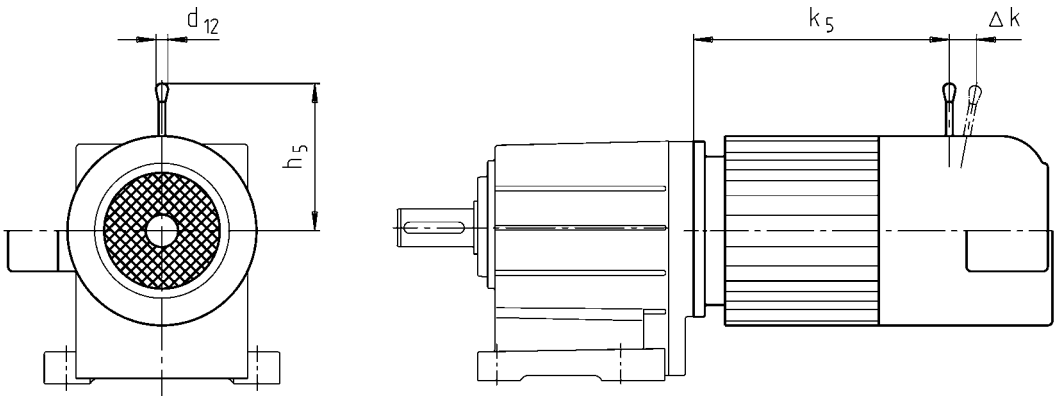


Motors with blower and protection cover



	M□□MA XX	M□□MA BR M□□MA BS M□□MA BI	M□□MA RS M□□MA IG M□□MA AG	
	Δ k	Δ k	Δ k	g_6
	[mm]	[mm]	[mm]	[mm]
063-32 063-42	169	209	169	133
071-32 071-42	165	202	165	150
080-32 080-42	168	224	168	170
090-32	157	210	157	188
100-12 100-32	137	198	137	210
112-22	135	216	216	249
132-12 132-22 132-32	140	226	226	300

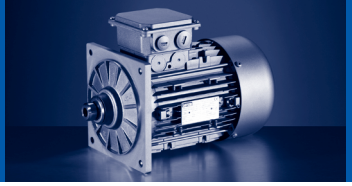
Motors with manual brake release lever



	Brake				
		k_5	Δ k	h_5	d_{12}
		[mm]	[mm]	[mm]	[mm]
063-32 **063-42**	**06**	173	29	107	13.0
071-32 **071-42**	**06** **08**	186 187	29 27	107 116	13.0 13.0
080-32 **080-42**	**06** **08**	207 218	29 27	107 116	13.0 13.0
090-32	**08** **10**	245 256	27 28	116 132	13.0 13.0
100-12 **100-32**	**10** **12**	294 296	28 37	132 161	13.0 13.0
112-22	**12** **14**	292 296	37 41	161 195	13.0 24.0
132-12 **132-22** **132-32**	**14** **16**	373 373	41 55	195 240	24.0 24.0

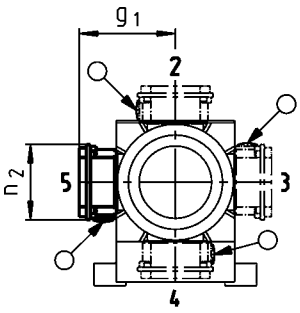
The following combinations with the manual release lever and motor connection in the same position are not possible:

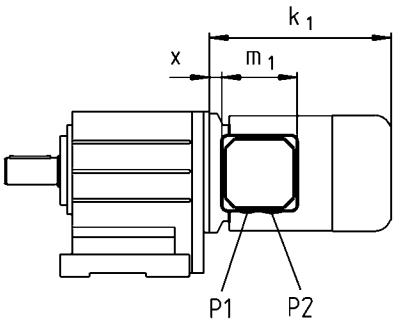
- HAN connector with connection in position 1
- motec inverter
- Terminal boxes for motor sizes 071, 080, 090 for brake and feedback (M□□MA BR/BS/BA/BI)

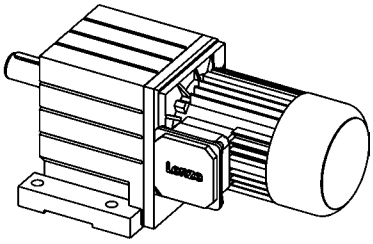


Motor terminal box KK1

- For motors with motor terminal box KK1, the connector position can be selected in accordance with the terminal box position.
- If preferred positions are not specified in the order, the cable entry will be positioned as circled on the diagram below.



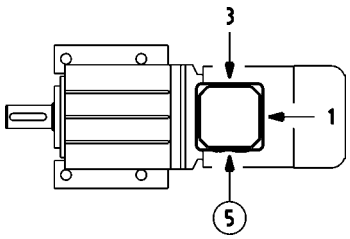
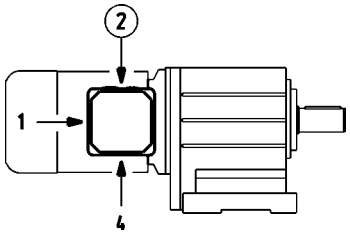
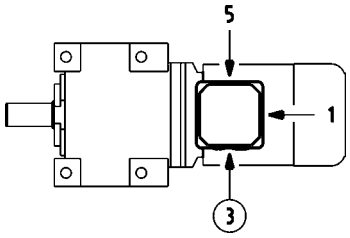
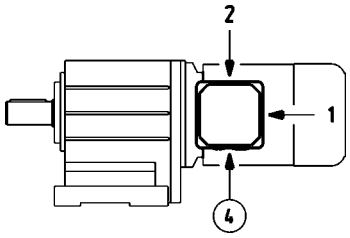




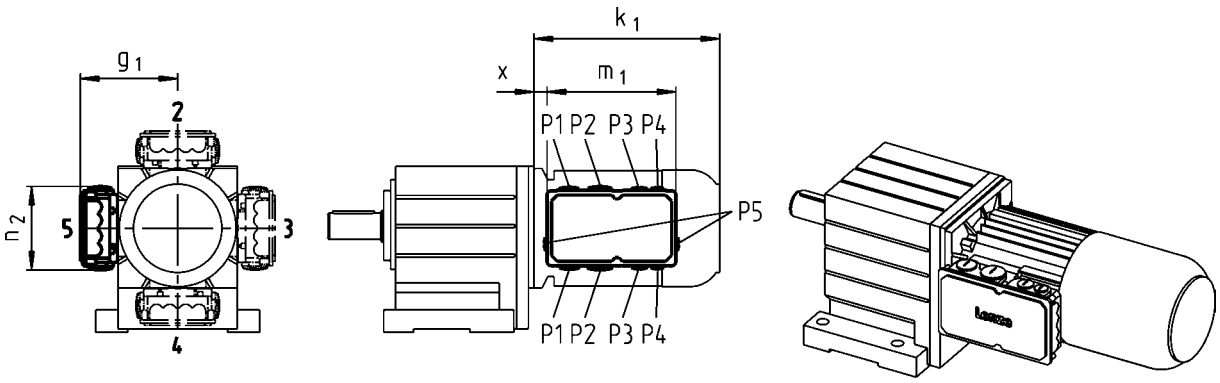
	x	g_1	m_1	n_2	P_1	P_2
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
063	21 8 [1]	100 114 [1]	75 101 [1]	75 101 [1]	M16x1.5 M20x1.5 [1]	M20x1.5 M20x1.5
071	24 11 [1]	109 123 [1]				
080	14	141	115	115	M20x1.5	M25x1.5
090	19	146				
100	20	157				
112	22	167				
132	33	195	122	122	M32x1.5	M32x1.5

[1] UL/CSA approval: cURus

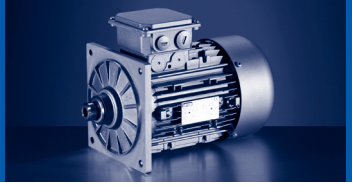
Position of cable entry

Motor terminal box in position 2	Motor terminal box in position 3
	
Motor terminal box in position 4	**Motor terminal box in position 5**
	

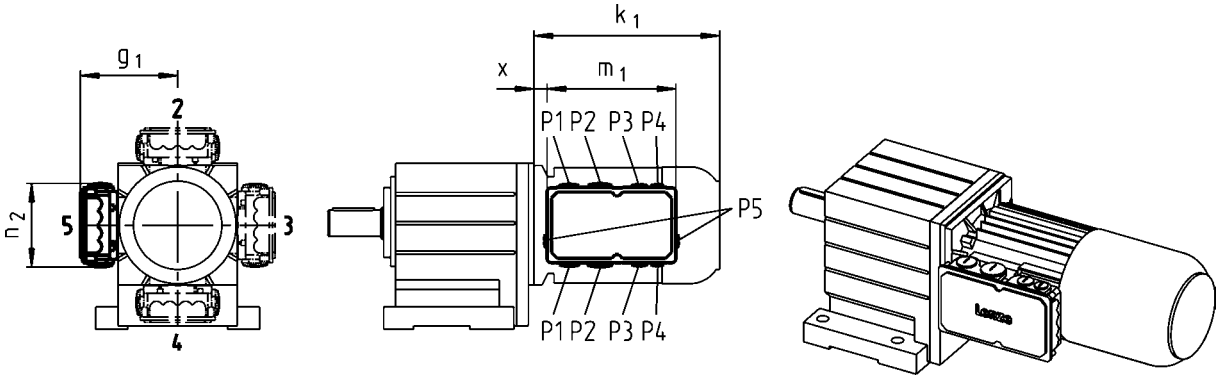
Motor terminal box KK2



	x	g_1	m_1	n_2	P_1	P_2
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
063	13	107	136	103	M16x1.5	M20x1.5
071	15	118				
080	17	132	152	121	M20x1.5	M25x1.5
090	22	137				
100	23	147				
112	25	158				



Motor terminal box KK3

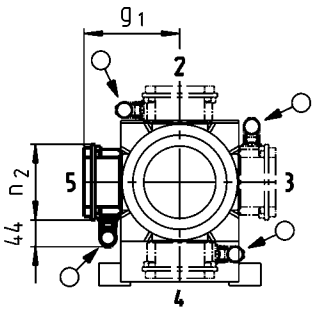


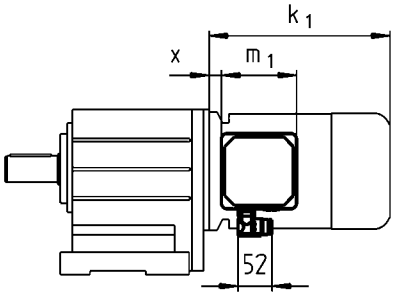
	x	g_1	m_1	n_2	P_1	P_2	P_3	P_4
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
063	2	124	195	125	M25x1.5	M32x1.5	M20x1.5	M20x1.5
071	5	133						
080	15	142						
090	20	147						
100	21	158						
112	23	168						
132	38	187						

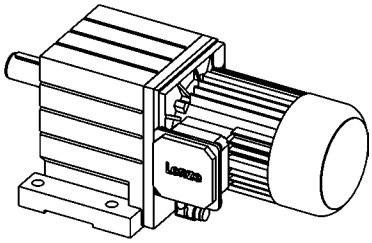
[1] Cable entry only possible at one position.
Terminal box position 2: cable entry at position 5.
Terminal box position 3: cable entry at position 2.
Terminal box position 4: cable entry at position 3.
Terminal box position 5: cable entry at position 4.

Motor terminal box KK1 with ICN connector

- For motors with connectors, the connector position can be selected in accordance with the terminal box position.
- If preferred positions are not specified in the order, the connector will be positioned as circled on the diagram below.

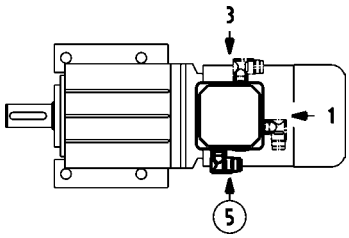
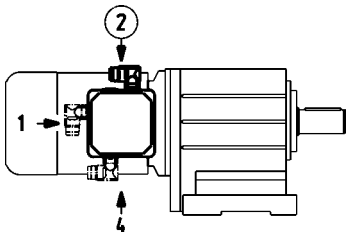
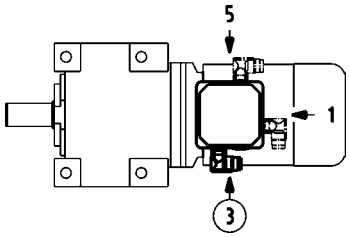
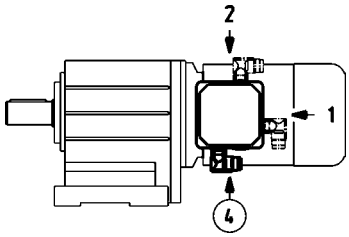


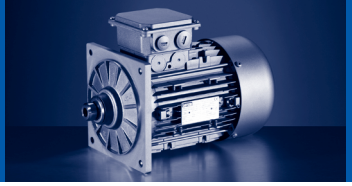




	x	g_1	m_1	n_2
	[mm]	[mm]	[mm]	[mm]
063	8	114	101	101
071	11	123		
080	14	141	115	115
090	19	146		
100	20	157		

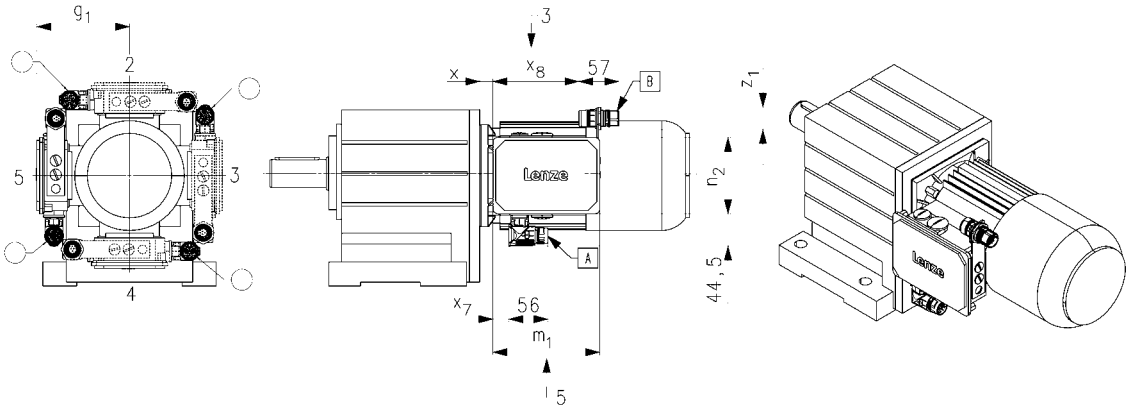
Position of connector

Motor terminal box with ICN connector in position 2	Motor terminal box with ICN connector in position 3
	
Motor terminal box with ICN connector in position 4	**Motor terminal box with ICN connector in position 5**
	



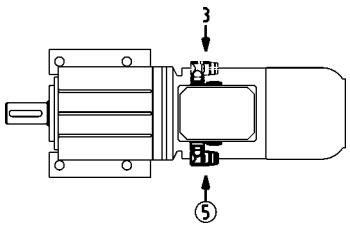
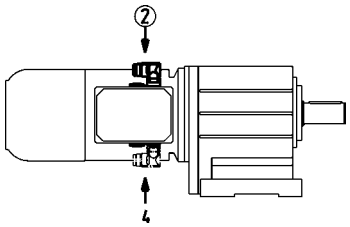
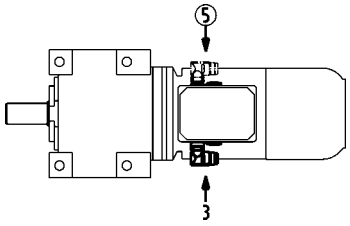
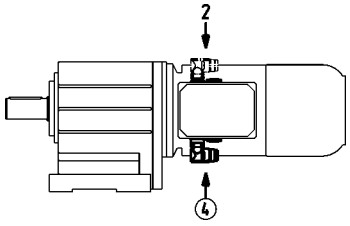
Motor terminal box KK2 / KK3 with ICN connector

- For motors with connectors, the connector position can be selected in accordance with the terminal box position.
- If preferred positions are not specified in the order, the connector will be positioned as circled on the diagram below.

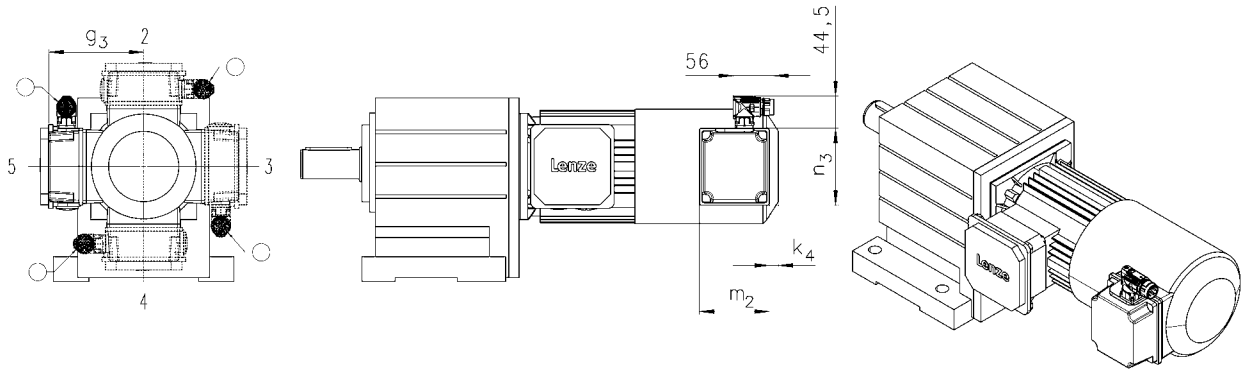


	x	g_1	m_1	n_2	x_7	x_8	$z_{1, max}$
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
063	13	107	136	103	16	109	43
071	15	118					
080	17	132	152	121	23	125	41
090	22	137					
100	23	147					

Position of connector

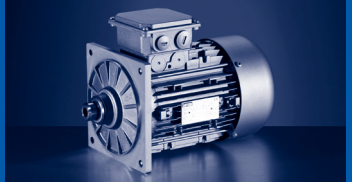
Motor terminal box with ICN connector in position 2	Motor terminal box with ICN connector in position 3
	
Motor terminal box with ICN connector in position 4	**Motor terminal box with ICN connector in position 5**
	

ICN connector for blower



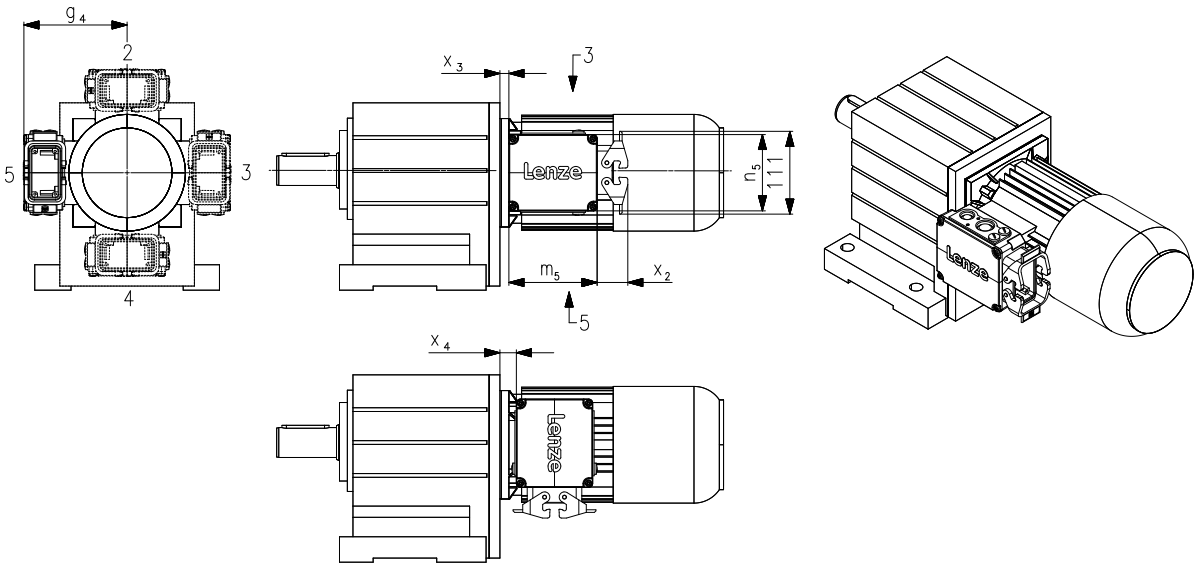
	k_4	g_3	m_2	n_3
	[mm]	[mm]	[mm]	[mm]
063	12	115	**95**	105
071		122		
080	13	132	**96**	106
090	22	141	**95**	105
100		150		
112		162		
132	32	182		

► In addition, the cover of the blower terminal box (including connectors) can be rotated progressively through 90° if necessary.



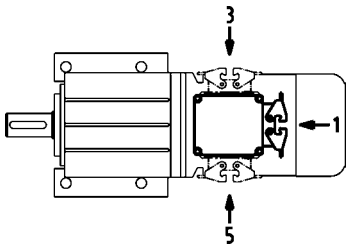
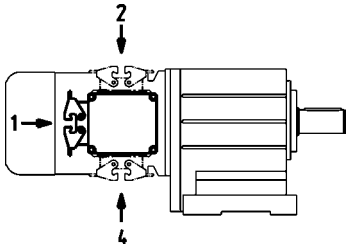
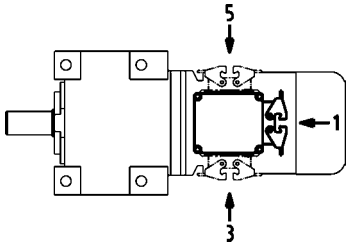
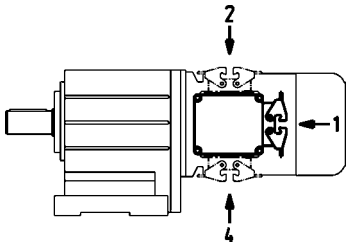
Motor terminal box with HAN-10E / HAN-Modular connector

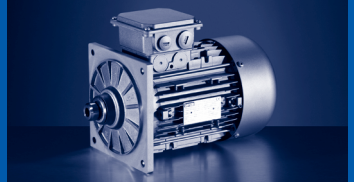
- For motors with connectors, the connector position can be selected in accordance with the terminal box position.
- Unless the connector position is specified, it will be supplied in position 1.



	g_4	m_5	n_5	x_2	x_3	x_4
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
063	120	118	102	41.0	5.00	6.00
071	129				7.00	8.00
080	138				11.0	19.0
090	143				15.0	23.0
100	154				16.0	24.0
112	164				13.5	21.5
132	233	120	180	47.0	34.5	4.50

Position of connector

Motor terminal box with HAN connector in position 2	Motor terminal box with HAN connector in position 3
	
Motor terminal box with HAN connector in position 4	**Motor terminal box with HAN connector in position 5**
	



Lenze world-wide

Lenze SE
Postfach 10 13 52
D-31763 Hameln
Telefon +49 (0)51 54 / 82-0
Telefax +49 (0)51 54 / 82-28 00
E-Mail: Lenze@Lenze.de
Internet: www.Lenze.com

Lenze Automation GmbH

Hans-Lenze-Straße 1, D-31855 Aerzen
Postfach 101352, D-31763 Hameln
Telefon +49 (0)51 54 / 82-0
Telefax +49 (0)51 54 / 82-28 00

Standort:
Grünstraße 36, D-40667 Meerbusch
Telefon +49 (0)21 32 / 99 04-0
Telefax +49 (0)21 32 / 7 21 90

Standort:
Am Alten Bahnhof 11
D-38122 Braunschweig
Telefon +49 (0)531 / 8 01 78-0
Telefax +49 (0)531 / 8 01 78-20

Lenze Engineering GmbH & Co KG

Postfach 10 13 52, D-31763 Hameln
Hans-Lenze-Straße 1, D-31855 Aerzen
Telefon +49 (0)51 54 / 82-0
Telefax +49 (0)51 54 / 82-28 00

Lenze Drives GmbH

Postfach 10 13 52, D-31763 Hameln
Breslauer Strasse 3, D-32699 Extertal
Telefon +49 (0)51 54 / 82-0
Telefax +49 (0)51 54 / 82-28 00

Lenze Operations GmbH

Postfach 10 13 52, D-31763 Hameln
Hans Lenze Straße 1, D-31855 Aerzen
Telefon +49 (0)51 54 / 82-0
Telefax +49 (0)51 54 / 82-28 00

Lenze Service GmbH

Breslauer Straße 3
D-32699 Extertal

Mechanical Drives
Telefon +49 (0)51 54 / 82-16 26
Telefax +49 (0)51 54 / 82-13 96

Electronic Drives
Telefon +49 (0)51 54 / 82-11 11
Telefax +49 (0)51 54 / 82-11 12

Service Helpline
+49 (0)180 5 20 24 26

Schmidhauser AG

Obere Neustrasse 1
CH-8590 Romanshorn
Telefon +41 (0)71 466 11 11
Telefax +41 (0)71 466 11 10

encoway GmbH

Buschhöhe 2
D-28357 Bremen
Telefon +49 (0)4 21 /33003 - 500
Telefax +49 (0)4 21 /33003 - 555

DEUTSCHLAND/GERMANY

Lenze Vertrieb GmbH *

Ludwig-Erhard-Straße 52-56
D-72760 Reutlingen
Telefon +49 (0)71 21 / 9 39 39-0
Telefax +49 (0)71 21 / 9 39 39-29

Region Nord
HefeHof 25
31785 Hameln
Telefon (0 51 54) 82 44-0
Telefax (0 51 54) 82 44-44

Region West
Postfach 10 12 20
47497 Neukirchen-Vluyn
Kelvinstraße 7
47506 Neukirchen-Vluyn
Telefon (0 28 45) 95 93-0
Telefax (0 28 45) 95 93 93

Region Mitte/Ost
Postfach 1463
35724 Herborn
Austraße 81
35745 Herborn
Telefon (0 27 72) 95 94-0
Telefax (0 27 72) 95 94 94

Region Südwest
Postfach 14 33
71304 Waiblingen
Schänzle 8
71332 Waiblingen
Telefon (0 71 51) 9 59 81-0
Telefax (0 71 51) 9 59 81 50

Region Süd
Am Haag 12
82166 Gräfelfing
Telefon (0 89) 89 56 14-0
Telefax (0 89) 89 56 14 14

WELTWEIT/WORLDWIDE

ALGERIA

see FRANCE

ARGENTINA *

E.R.H.S.A.
Girardot 1368, 1427 BUENOS AIRES
Phone +54 (0)11 / 45 54 32 32
Telefax +54 (0)11 / 45 52 36 11

AUSTRALIA *

FCR Motion Technology Pty. Ltd.
Unit 6, Automation Place
38-40 Little Boundary Rd.
LAVERTON NORTH, Vic. 3026
Phone +61 (3) 9362 6800
Telefax +61 (3) 9314 3744

AUSTRIA *

Lenze Antriebstechnik GmbH
Ipf-Landesstraße 1, 4481 Asten
Phone +43 7224 210 0
Telefax +43 7224 210 999

Lenze Austria Holding GmbH
Ipf-Landesstraße 1, 4481 Asten
Phone +43 7224 210 0
Telefax +43 7224 210 999

Lenze Operations Austria GmbH
Ipf-Landesstraße 1, 4481 Asten
Phone +43 7224 210 0
Telefax +43 7224 210 999

Lenze Verbindungstechnik GmbH
Ipf-Landesstraße 1, 4481 Asten
Phone +43 7224 210 0
Telefax +43 7224 210 998

Lenze Anlagentechnik GmbH
Mühlenstraße 3, 4470 Enns
Phone + 43 7224 210 0
Telefax + 43 7224 210 997

Lenze, Vertriebsbüro Süd
Seering 8, 8141 Unterpremstätten
Phone +43 7224 210 0
Telefax +43 7224 210 7199

Lenze, Vertriebsbüro Ost
Triester Straße 14, 2351 Wr. Neudorf
Phone +43 7224 210 0
Telefax +43 7224 210 7099

Lenze, Vertriebsbüro West
Lustenauerstraße 64, 6850 Dornbirn
Phone +43 7224 210 0
Telefax +43 7224 210 7299

BELARUS

IOOO Lenze
220124, Minsk
Masjukovschina str, 2-a
administrative and amenity buildinq,
attic, office 5
Phone (+375-17) 509-59-55
Telefax (+375-17) 509-65-66
Mobile (+375-29) 694-67-89 Vel
Mobile (+375-29) 505-18-06 MTC

BELGIUM *

Lenze b.v.b.a
Industriepark Noord, 19.
9100 SINT-NIKLAAS
Phone +32 (0)3.542.62.00
Telefax +32 (0)3.541.37.54

BOSNIA-HERZEGOVINA

see CROATIA

BRAZIL *

Lenze Brasil Automação Ltda.
Rua Conde Moreira Lima 589
CEP 04384-030
SÃO PAULO/SP – Brasil
Phone +55 11 2348-6579
Telefax +55 11 2348-6573

Produtos Eletrônicos Metaltex Ltda (Focus on Sales)
Rua José Rafaelli, 221
Socorro, CEP 04763-280
SÃO PAULO/SP – Brasil
Phone +55 11 56 83 57 00
Telefax +55 11 55 24 23 24

BULGARIA

Lenze Zadvizhvasta Tehnika EOOD
Bul. Maritza 21, Office 204
4003 PLOVDIV
Phone +359 32 940 373
Telefax +359 32 940 349

CANADA *

Lenze Canada Corporation
1535 Meyerside Drive, Unit 1
Mississauga, ON L5T 1M9 CANADA
Phone +1 (508) 278-9100
Telefax +1 (508) 278-7873

CENTRAL AMERICA

see Americas HQ

CHILE

Sargent S.A.
Tecnica Thomas C. Sargent
Av. Gral. Velásquez 5720, San Bernardo
SANTIAGO – CHILE
Phone +56 (0)2 / 51 03 000
Telefax +56 (0)2 / 69 83 989

CHINA *

Lenze Drive Systems (Shanghai) Co. Ltd.
No. 2989, Jiangshan Road
Lingang, Shanghai 201306
CHINA
Phone +86 21 3828 0200
Telefax +86 21 3828 0250

COLOMBIA

Casa Sueca, S.A.
Calle 52 1N-74
CALI
Phone +57 -2- 682 0444
Telefax +57 -2- 683 1411

CROATIA

Lenze mehatronika-pogonska tehnika d.o.o.
Ulica grada Gospića 3
HR-10000 ZAGREB
Phone +385 1 249-8056
Telefax +385 1 249-8057

CZECH REPUBLIC

Lenze, s.r.o.
Central Trade Park D1
396 01 HUMPOLEC
Phone +420 565 507-111
Telefax +420 565 507-399

Büro Červený Kostelec:
Lenze, s.r.o.
17. listopadu 510
549 41 ČERVENÝ KOSTELEC
Phone +420 491 467-111
Telefax +420 491 467-166

DENMARK *

Lenze A/S
Vallensbækvej 18A
2605 BRØNDBY
Phone +45 / 4696 6666
Telefax +45 / 4696 6660
24 stunde service +45 / 5251 6699

Buero Jylland: Lenze A/S
Niels Bohrs Vej 23
8660 SKANDERBORG
Phone +45 / 46 96 66 88
Telefax +45 / 46 96 66 80

EGYPT

WADI Co. for technologies and development
P.O.Box 209, new center Ramses
11794 CAIRO, Egypt
11 Syria St., Mohandessin
GIZA, Egypt
Phone +2 (02) 3347 6842
Telefax +2 (02) 3347 6843

ESTONIA

see FINLAND

FINLAND *

Lenze Drives
Tierankatu 8, 20520 TURKU
Phone +358 2 2748 180
Telefax +358 2 2748 189

FRANCE *

Lenze S.A.
Siège
ZI des Mardelles
44 Rue Blaise Pascal
93600 AULNAY-SOUS-BOIS

Services Commerciaux
Phone 0 825 086 036
Telefax 0 825 086 346

Centre de formation
E-Mail : semin.sidonie@lenze.fr

Questions générales / documentation
E-Mail : info@lenze.fr

Service Après-vente / assistance en ligne
Helpline 24/24 : 0 825 826 117
E-Mail : helpline@lenze.fr

Agences en France

Région France Nord :
ZI des Mardelles
44 Rue Blaise Pascal
93600 AULNAY-SOUS-BOIS

Nantes
44000 NANTES

Strasbourg
67870 GRIESHEIM près MOLSHEIM

Rouen
76500 ELBEUF

Région France Sud :
Parc Technologique
97, allée Alexandre Borodine
Immeuble le Douglas 2
69800 SAINT PRIEST

Agen
47270 SAINT-PIERRE de CLAIRAC

GREECE

GEORGE P. ALEXANDRIS SA
12, K. Mavromichali Street
18545 PIRAEUS
Phone +30 210 41 11 841
Telefax +30 210 41 27 058

Industrial Area, Block 48B, 4th Entrance
57022 SINDOS
Phone +30 2310 556 650
Telefax +30 2310 511 815

HUNGARY *

Lenze Hajtástechnika Kft
2040 BUDAÖRS
Gyár utca 2., P.O.Box 322.
Phone +36 23 501-320
Telefax +36 23 501-339

ICELAND

see DENMARK

INDIA

Lenze Mechatronics Pvt. Ltd.
Lenze Plot No. 46A, Sector-10
PCNTDA Industrial Area, Bhosari
PUNE - 411 026
Phone +91-20-66318100
Telefax +91-20-66318120

Kolkata Sales office
2nd Floor, 3/1 Ashton Road
KOLKATA - 700020
Phone +91-33-24190490
Telefax +91-33-24190562

New Delhi Sales office
Flat No - 101, Padma Tower - II
22, Rajendra Place
NEW DELHI - 110008
Phone +91-11-25812113/15
Telefax +91-11-25812114

INDONESIA

see MALAYSIA

IRAN

Tavan Ressan Co.
No.5, Alizadeh Alley,
North Bahar Str.,
Sadr Highway,
Tehran-1931813556-Iran
P.O. Box 19395-5177 Teh-IR
Phone +98 21 / 2769 4444
Telefax +98 21 / 222 444 00

ISRAEL *

Zeev Melcer LTD
P.O.B. 10011, HAIFA BAY 26110
36 Yosef Levi St., Kiriat Bialik
Phone +972-(0)4-8757037
Telefax +972-(0)4-8742172

ITALY *

Lenze Italia S.r.l.
Viale Monza 338, 20128 MILANO
Phone +39 02 / 270 98.1
Telefax +39 02 / 270 98 290

JAPAN *

Miki Pulley Co., Ltd.
1-39-7 Komatsubara, Zama-city
KANAGAWA 228-8577
Phone +81 (0)462 / 58 16 61
Telefax +81 (0)462 / 58 17 04

LATVIA

see LITHUANIA

LEBANON

I. Network Automation s.a.l.
Ground floor - United insurance building
Facing Mercedes Show room
Dora - High Way, BEIRUT-METEN
P.O.Box 835 - Jounieh - Lebanon
Phone +961-1-249562
Telefax +961-1-249563

LITHUANIA

Lenze UAB
Breslaujos g.3, 44403 KAUNAS
Phone +370 37 407174
Telefax +370 37 407175

LUXEMBOURG *

see BELGIUM

MACEDONIA

Lenze Antriebstechnik GmbH
Pretstavnistvo Skopje
ul. Nikola Rusinski 3/A/2, 1000 SKOPJE
Phone +389 2 30 90 090
Telefax +389 2 30 90 091

MALAYSIA

Lenze S.E.A. Sdn Bhd
No. 28 Jalan PJU 3/47
Sunway Damansara, Technology Park
47810 PETALING JAYA
SELANGOR DARUL EHSAN
Phone +60 3 7803 1428
Telefax +60 3 7806 3728

MAURITIUS

Automation & Controls Engineering Ltd
3, Royal Road, Le Hochet, Terre Rouge
MAURITIUS
Phone +230 248 8211
Telefax +230 248 8968

MEXICO

Sales:
see AMERICAS HQ

Service:
Automatización y Control de Energía S.A. de C.V.
Av. 2 No.89 Esq Calle 13
Col. San Pedro de los Pinos
C.P. 03800 MEXICO D.F.
Phone +52 55 2636-3540
Fax +52 55 2636-3541

MONTENEGRO

see MACEDONIA

MOROCCO

GUORFET G.T.D.R
Automatisation Industrielle
Bd Chefchaouni Route 110 km, 11.500
No. 353-Aîn-Sabaâ
CASABLANCA
Phone +212/22-35 70 78
Telefax +212/22-35 71 04

NETHERLANDS *

Lenze B.V., Postbus 31 01
5203 DC 's-HERTOGENBOSCH
Ploegweg 15
5232 BR 's-HERTOGENBOSCH
Phone +31 (0)73 / 64 56 50 0
Telefax +31 (0)73 / 64 56 51 0

NEW ZEALAND *

Tranz Corporation
343 Church Street
P.O. Box 12-320, Penrose
AUCKLAND
Phone +64 (0)9 / 63 45 51 1
Telefax +64 (0)9 / 63 45 51 8

NORWAY *

Dtc- Lenze as
Stallbakken 5, 2005 RAELINGEN
Phone +47 / 64 80 25 10
Telefax +47 / 64 80 25 11

PHILIPPINES

see MALAYSIA

POLAND

Lenze Polska Sp. z o.o.
Ul. Roździeńskiego 188b
40-203 KATOWICE
Phone +48 (0) 32 203 97 73
Telefax +48 (0) 32 781 01 80

Torun Office
Lenze Polska Sp. z o.o.
Ul. Rydygiera 47
87-100 TORUŃ
Phone +48 (0) 56 658 28 00
Telefax +48 (0) 56 645 33 56

PORTUGAL *

Costa Leal el Victor
Electronica-Pneumatica, Lda.
Rua Prof. Augusto Lessa, 269,
Apart. 52053
4202-801 PORTO
Phone +351-22 / 5 50 85 20
Telefax +351-22 / 5 02 40 05

ROMANIA

see AUSTRIA

RUSSIA

OOO Lenze
Shchelkovskoye shosse 5
105122 MOSCOW
Phone +7 495 921 3250
Telefax +7 495 921 3259

SERBIA

see MACEDONIA

SINGAPORE *

see MALAYSIA

SLOVAC REPUBLIC

see CZECH REPUBLIC

ECS Sluzby spol. s.r.o.
Staromlynska 29
82106 BRATISLAVA
Phone +421 2 45 64 31 47
Telefax +421 2 45 25 96 06

SLOVENIA

LENZE pogonska tehnika, d.o.o.
Kidričeva ulica 24
3000 CELJE
Phone +386 03 426 46 40
Telefax +386 03 426 46 50

SOUTH AFRICA *

S.A. Power Services (Pty.) Ltd.
Unit 14, Meadowbrook Business Estates
Jacaranda Ave, Olivedale
Randburg 2158, P.O.Box 1137
RANDBURG 2125
Phone +27(11) 462-8810
Telefax +27(11) 704-5775

SOUTH KOREA *

Lenze Representative Office
No. 606, Daeryung Technotown 6th,
493-6, Gasan-dong, Geumcheon-gu,
SEOUL 153-774
Phone +82 2-792-7017
Telefax +82 2-792-7018

SPAIN *

Lenze Transmisiones S.A.
Edificio TCA
C/ Henri Dunant, 9.
08173 SANT CUGAT DEL VALLÈS
(Barcelona)
Phone 902 02 79 04
(0034) 937 207 680
Telefax 902 02 63 69

Lenze Delegación Norte
Phone 902 02 79 04
(0034) 937 207 680

Lenze Delegación Levante
Cullera, 73- 4ºD
46035 BENIMAMET (Valencia)
Phone 902 02 79 04
(0034) 937 207 680
Telefax 902 02 63 69

Lenze Delegación Madrid
C/ Poema Sinfónico Nº 25-27
Local nº 3, escalera 1, Planta Baja.
28054 MADRID
Phone 915 103 341
Telefax 915 102 061

SWEDEN *

Lenze Transmissioner AB
P.O.Box 10 74, Attorpsgatan, Tornby Ind.
58110 LINKÖPING
Phone +46 (0)13 / 35 58 00
Telefax +46 (0)13 / 10 36 23

SWITZERLAND *

Lenze Bachofen AG
Ackerstrasse 45
8610 USTER
Phone +41 (0) 43 399 14 14
Telefax +41 (0) 43 399 14 24

Vente Suisse Romande:
Route de Prilly 25
1023 CRISSIER
Phone +41 (0)21 / 63 72 19 0
Telefax +41 (0)21 / 63 54 76 2

SYRIA

Zahabi Co.
8/5 Shouhadaa Street
P.O.Box 8262
ALEPPO-SYRIA
Phone +963 21 21 22 23 5
Telefax +963 21 21 22 23 7

TAIWAN *

Lenze Taiwan Representative Office
6F.-1, No.136, Sec. 3, Zhongxiao E. Rd.
TAIPEI City, 10655, Taiwan
Phone +886 / (0)2-2721-2161
Telefax +886 / (0)2-2721-2706

THAILAND

see MALAYSIA

TUNESIA

AMF Industrielle Sarl
Route de Gremda - Km 0,2
Immeuble El Madina,
Centre Bloc B - 5 ème - appt 52
3002 SFAX
Phone +216 74 403 514
Telefax +216 74 402 516

TURKEY

LSE Elektrik
Elektronik Makina
Otomasyon Mühendislik
Sanayi ve Ticaret Ltd. Şti
Atatürk mah. Cumhuriyet cad.
Yurt sok. No: 7
ÜMRANIYE/İSTANBUL
Phone +90 (0)216 / 316 5138 pbx
Telefax +90 (0)216 / 443 4277

UKRAINE

SV Altera, Ltd.
Lepse ave., 4
KIEV, 03067
Phone +38 044 496 18 88
Telefax +38 044 496 18-18

UNITED ARAB EMIRATES

LPT (FZC)
X4 Building No. 37
Sharjah Airport Free Zone (SALF ZONE)
SHARJAH
Phone +971 6 5573205
Telefax +971 6 5573206

UNITED KINGDOM/EIRE *

Lenze Ltd.
Fraser Road
Priory Business Park
BEDFORD MK44 3WH
Phone +44 (0)1234 / 75 32 00
Telefax +44 (0)1234 / 75 32 20

USA *

AMERICAS HQ
Lenze Americas Corporation
630 Douglas Street
UXBRIDGE, MA 01569
Phone +1 508 278 9100
Telefax +1 508 278 7873

Sales:
see Americas HQ

Operations:
Lenze AC Tech Corporation
630 Douglas Street
UXBRIDGE, MA 01569
Phone +1 508 278 9100
Telefax +1 508 278 9294

Lenze DETO Drive Systems
see Americas HQ

VIETNAM

see MALAYSIA

*** Countries connected to the free expert helpline 008000 24 hours** (008000 24 46877)

It's good to know | why we are there for you

"Our customers come first. Customer satisfaction is what motivates us. By thinking in terms of how we can add value for our customers we can increase productivity through reliability."

"We will provide you with exactly what you need – perfectly co-ordinated products and solutions with the right functions for your machines and installations. That is what we mean by 'quality'."

"Take advantage of our wealth of expertise. For more than 60 years now we have been gathering experience in various fields and implementing it consistently and rigorously in our products, motion functions and pre-configured solutions for industry."

"The world is our marketplace. Wherever you are in the world, we are nearby, providing you with our drive and automation solutions."

Algeria · Argentina · Australia · Austria · Belarus · Belgium · Bosnia-Herzegovina · Brazil · Bulgaria · Canada · Central America · Chile China · Colombia · Croatia · Czech Republic · Denmark · Egypt · Estonia Finland · France · Germany · Greece · Hungary · Iceland · India · Indonesia Iran · Israel · Italy · Japan · Latvia · Lebanon · Lithuania · Luxembourg Macedonia · Malaysia · Mauritius · Mexico · Montenegro · Morocco Netherlands · New Zealand · Norway · Philippines · Poland · Portugal Romania · Russia · Serbia · Singapore · Slovac Republic · Slovenia South Africa · South Korea · Spain · Sweden · Switzerland · Syria Taiwan · Thailand · Tunesia · Turkey · Ukraine · United Arab Emirates United Kingdom/Eire · USA · Vietnam

You can rely on our service. Expert advice is available 24 hours a day, 365 days a year, in more than 30 countries via our international helpline: 008000 24 Hours (008000 2446877).

www.Lenze.com

13381121

Lenze Drives GmbH * Breslauer Strasse 3 * D-32699 Extertal, Germany * Subject to technical alterations * Printed in Germany 01.2012 Version 1.2 en